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THE

PROGRESS OF

THE

ARTS AND

MANUFACTURES

IN

THE

UNITED STATES

OF AMERICA

FROM

1790 TO 1860

BY

JOHN

W. FOSTER

OF THE

AMERICAN

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1860





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# INDEX OF MINING ENGINEERING LITERATURE

COMPRISING AN  
INDEX OF MINING, METALLURGICAL, CIVIL, MECHANICAL,  
ELECTRICAL AND CHEMICAL ENGINEERING  
SUBJECTS AS RELATED TO MINING  
ENGINEERING

BY

WALTER R. CRANE, PH.D.

DEAN OF THE SCHOOL OF MINES AND METALLURGY, AND PROFESSOR  
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"A TREATISE ON GOLD AND SILVER," AND NUMEROUS  
TECHNICAL ARTICLES ON MINING

*FIRST EDITION*

FIRST THOUSAND

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## PREFACE

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THE present volume, known as an Index of Mining Engineering Literature, will be found useful for all engineering professions, but especially to mining and metallurgical engineers and educators. It consists of a complete and carefully made index of eighteen engineering publications: journals, transactions and proceedings of societies, etc., which have in large part been cross-referenced, thus rendering valuable assistance to the reader in acquiring information not given in a general index, and which would not otherwise be accessible except through much tedious and painstaking research and extensive reading.

The work has grown out of the personal needs of the author in both educational and professional work. From a small number of selected references it has grown to such an extent, and has proven of such practical value that it was deemed advisable to publish it and thus place it within reach of members of the engineering professions. It represents the unaided labor of the author for a period of about five years, during which time he was actively engaged with other duties. Any errors that may occur are, therefore, due to his oversight and are not chargeable to others. The method of writing the references has changed from time to time as a result of experience in the work, and the use to which they have been put, which will explain why certain information is given in one instance and not in another. At the beginning of the work, the number of pages or columns, also the illustrations, were not considered of importance, and consequently were not given, and similarly with other minor points. Further, it will occasionally occur that the page as given will not be exact, which is due in large part to calculating backward, hastily, after ascertaining the number of pages or columns in the article, and in a similar manner the length may have been miscalculated by a page, column or a fraction of either. The author will consider it a favor if his attention is called to errors, in order that they may be corrected.

WALTER R. CRANE.

SCHOOL OF MINES AND METALLURGY,  
THE PENNSYLVANIA STATE COLLEGE,  
January 1, 1909.



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## ABBREVIATIONS

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- Am. Jour. Min. — American Journal of Mining.  
 Ann. Min. Rept. N. S. Wales. — Annual Mining Report New South Wales.  
 Cal. Miners' Assoc. Annl. — California Miners' Association Annual.  
 Coll. Engr. — Colliery Engineer.  
 Coll. Engr. & Met. Miner. — Colliery Engineer and Metal Miner.  
 Coll. Working and Management. — Colliery Working and Management.  
 Coll. Guard. — Colliery Guardian.  
 Columbia Eng. — Columbia Engineer.  
 E. & M. J. — Engineering and Mining Journal.  
 Eng. News. — Engineering News.  
 Eng.-Cont. — Engineering-Contracting.  
 Eng. Mag. — Engineering Magazine.  
 Gold Min. & Mill. W. Aus. — Gold Mining & Milling in Western Australia.  
 J. C. M. I. — Journal Canadian Mining Institute.  
 J. C. M. Rev. — Journal Canadian Mining Review.  
 J. C. & M. Soc. S. A. — Journal Chemical and Metallurgical Society of South Africa.  
 J. W. Soc. E. — Journal Western Society of Engineers.  
 J. M. Soc. N. S. — Journal Mining Society of Nova Scotia.  
 Min. Mag. — Mining Magazine.  
 M. & M. — Mines and Minerals.  
 Min. & Sci. Press. — Mining and Scientific Press.  
 Mech. Eng. Coll. — Mechanical Engineering of Collieries.  
 P. C. M. & M. Soc. S. A. — Proceedings Chemical Mining and Metallurgical Society of South Africa.  
 P. E. Soc. W. Pa. — Proceedings Engineering Society of Western Pennsylvania.  
 P. C. M. — Practical Coal Mining.  
 P. I. C. E. — Proceedings Institute of Civil Engineers.  
 Rept. Insp. Mines Pa. — Report Inspector of Mines of Pennsylvania.  
 Rept. Zinc Comm. Canada. — Report Zinc Commission of Canada.  
 R. R. Construction. — Railroad Construction.  
 Sch. Mines Quart. — School of Mines Quarterly.  
 Soc. P. E. E. — Society for the Promotion of Engineering Education.  
 Sci. Am. Supp. — Scientific American Supplement.  
 T. L. S. M. I. — Transactions Lake Superior Mining Institute.  
 T. I. M. E. — Transactions Institute of Mining Engineers.  
 T. A. I. M. E. — Transactions American Institute of Mining Engineers.  
 T. F. I. M. E. — Transactions Federated Institute of Mining Engineers.  
 T. I. M. & M. — Transactions Institution of Mining and Metallurgy.  
 T. N. S. I. M. & M. E. — Transactions North Staffordshire Institute of Mining and Mechanical Engineers.  
 T. F. C. M. I. — Transactions Federated Canadian Mining Institutes.  
 T. A. S. M. E. — Transactions American Society Mechanical Engineers.

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- REPORT OF THE BRITISH ACCIDENTS IN MINES COMMISSION.** E. & M. J., vol. 41, p. 302. 5½ columns.
- A BRAVE MINER (ACCIDENT).** Coll. Engr., vol. 11, p. 64. ¼ column.
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For Accidents with Air-Compressors, Explosions, etc., see Compressed Air.

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**SAFETY IN COAL MINING.** E. & M. J., vol. 52, p. 122. 3½ columns.

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- TO DECREASE ACCIDENTS IN MINES.** Min. & Sci. Press, vol. 89, p. 376. ¼ column.
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- INVESTIGATIONS INTO SOME ELECTRIC ACCIDENTS AND MEANS OF PREVENTING THEM.** By L. W. de Grave. T. I. M. E., vol. 21, p. 136. 18 pages. I.  
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- SOME SAFETY APPLIANCES FOR MINES.** E. & M. J., vol. 64, p. 400. 2 columns. I.
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### Rescue Work in Mines

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NOTES ON THE RECENT UNDERGROUND FIRE AT WHARNCLIFFE SILKSTONE COLLIERIES, AND THE USE OF RESCUE-APPARATUS IN CONNECTION THEREWITH. By J. Wroe. T. I. M. E., vol. 35, p. 2. 4 pages.

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**IN MINES WHERE SPONTANEOUS COMBUSTION IS APT TO OCCUR, THE FOLLOWING PRINCIPLES SHOULD BE OBSERVED.** T. F. I. M. E., vol. 5, p. 18.

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### Inundation of Mines

**AN INBURST OF WASTE-WATER AT WALLYFORD COLLIERY.** By R. T. Moore. T. I. M. E., vol. 28, p. 11. 3 pages.

**COMSTOCK INUNDATION.** Min. & Sci. Press, vol. 44, p. 142.  $\frac{1}{2}$  column.

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**SOME LESSONS FROM THE RECENT FLOODS IN THE ANTHRACITE MINES OF PENNSYLVANIA.** By W. S. Ayres. E. & M. J., vol. 73, p. 378.  $2\frac{1}{2}$  columns.

**INUNDATIONS AT THE GARFORTH COLLIERY, 1872 and 1883.** T. F. I. M. E., vol. 9, p. 150.

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- THE JOHNSTOWN DISASTER AND THE CAMBRIA IRON COMPANY.** E. & M. J., vol. 47, p. 520. 3 columns. I.
- A COLLIERY FLOODED BY TAPPING OF WATER IN OLD WORKINGS.** Coll. Engr., vol. 11, p. 160.  $\frac{1}{2}$  column.
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- THE GARFORTH COLLIERIES, WITH SPECIAL REFERENCE TO THE FAILURES OF TUBBING AND INUNDATIONS WHICH OCCURRED IN 1872 AND 1883.** By R. Routledge. T. F. I. M. E., vol. 9, p. 150. 8 pages. I.
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- RECENT MINE DISASTERS.** E. & M. J., vol. 83, p. 1054. 1 column +.
- A PATHETIC INCIDENT CONNECTED WITH A GREAT EXPLOSION.** Coll. Engr., vol. 9, p. 100. 1 column. I.
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- THE ELBA AND CLYDACH VALE COLLIERY EXPLOSIONS.** By J. Ashworth. T. I. M. E., vol. 30, p. 509. 16 pages. I.
- CAN EXPLOSIONS IN COAL MINES, WITH THEIR ASSOCIATED TOXIC FATALITIES, BE PREVENTED?** By B. H. Thwaite. T. I. M. E., vol. 30, p. 388.  $15\frac{1}{2}$  pages.
- EXPLOSIONS OF GAS ON THE CONTINENT.** T. I. M. E., vol. 31, pp. 715-722.
- THE HANNA, WYOMING, MINE DISASTER.** By R. L. Herrick. M. & M., vol. 28, p. 474.  $6\frac{1}{2}$  columns. I.
- YOLANDE MINE DISASTER.** M. & M., vol. 28, p. 331. 2 columns.
- COAL MINE EXPLOSIONS.** By L. Brett. M. & M., vol. 28, p. 346. 5 columns.
- DARR MINE DISASTER.** M. & M., vol. 28, p. 377. 3 columns. I.
- MONONGAH MINE DISASTER.** By H. H. Stock. M. & M., vol. 28, p. 277, 7 columns; and p. 327,  $2\frac{1}{2}$  columns.
- AIR-PERCUSSION AND TIME IN COLLIERY EXPLOSIONS.** By J. Ashworth. T. I. M. E., vol. 34, p. 270.  $11\frac{1}{2}$  pages. I.
- BRATTICE EXPLOSION DOOR.** M. & M., vol. 27, p. 455.  $\frac{1}{2}$  column. I.
- THE FERNIE EXPLOSION.** T. I. M. E., vol. 26, p. 426. 18 pages.
- THE STUART COLLIERY DISASTER.** By F. W. Parsons. E. & M. J., vol. 83, p. 342. 2 columns. I.
- DISASTER AT MONONGAH COAL MINES Nos. 6 AND 8.** By F. W. Parsons. E. & M. J., vol. 84, p. 1121.  $5\frac{1}{2}$  columns. I.
- EXPLOSIONS IN MINES.** T. I. M. E., vol. 26, p. 643. 8 pages.
- THE EXPLOSION HAZARD OF ELECTRICAL APPLIANCES IN COLLIERIES.** E. & M. J., vol. 81, p. 1242.  $1\frac{1}{2}$  columns.
- OFFICIAL REPORT ON THE COURRIERES EXPLOSION.** E. & M. J., vol. 82, p. 545. 3 columns.
- COLLIERY EXPLOSIONS AND THEIR CAUSES.** By J. T. Beard. E. & M. J., vol. 83, p. 1051.  $12\frac{1}{2}$  columns. I.
- VOLCANIC ACTIVITY AND MINE EXPLOSIONS.** E. & M. J., vol. 83, p. 1054. 2 columns.
- THE WINGATE EXPLOSION.** E. & M. J., vol. 82, p. 887.  $\frac{1}{2}$  column.
- CONCLUSIONS ARRIVED AT BY ABEL ON CAUSE OF MINE EXPLOSIONS.** T. A. I. M. E., vol. 13, p. 261.
- EXPLOSIONS AT COLLIERIES.** T. A. I. M. E., vol. 13, pp. 256, 257, 260.



- MINE EXPLOSIONS.** By J. T. Beard. E. & M. J., vol. 81, p. 952. 9 columns.
- COMPARISON OF THE EXPLOSIVE AND DANGEROUS QUALITIES OF COAL GAS AND THE STRONG WATER GAS.** By H. Wurtz. E. & M. J., vol. 31, p. 161. 2 columns.
- EXPLOSIONS IN MINES AND THE MINES REGULATION ACT, 1872.** By J. S. Bakewell. T. N. S. I. M. & M. E., vol. 5, p. 31. 9 pages.
- LECTURE ON COLLIERY EXPLOSIONS.** By T. Carnelley. T. N. S. I. M. & M. E., vol. 3, p. 35. 14 pages.
- EXPLOSIONS.** By A. R. Sawyer. T. N. S. I. M. & M. E., vol. 10, p. 17. 5 pages. I.
- COLLIERY EXPLOSIONS.** T. N. S. I. M. & M. E., vol. 10, p. 42. 9 pages.
- MINE EXPLOSIONS IN ILLINOIS.** By R. Newsam. M. & M., vol. 27, p. 417. 4 columns. I.
- THE COURRIERES CATASTROPHE.** E. & M. J., vol. 81, p. 898. 2 columns. I.
- THE DISASTER AT LENS (Explosion).** By M. Vingoe. E. & M. J., vol. 81, p. 663. 2½ columns. I.
- THE MANNERS COLLIERY EXPLOSION.** By J. Ashworth. M. & M., vol. 26, p. 366. 1½ columns. I.
- PERCUSSION IN MINE EXPLOSIONS.** M. & M., vol. 26, p. 359. 1½ columns.
- THE YORK FARM COLLIERY DISASTER (Explosion).** Coll. Engr., vol. 13, p. 14. 3½ columns. I.
- FIRE DAMP EXPLOSIONS.** Coll. Engr., vol. 13, p. 57. 4 columns. I.
- THE EXPLOSION AT THE WHITSITT MINE.** Coll. Engr., vol. 13, p. 206. 1½ columns. I.
- THE COURRIERES' DISASTER.** M. & M., vol. 26, p. 458. 4 columns. I.
- THE PITTSFORD CALAMITY (Explosion).** E. & M. J., vol. 11, p. 377. 2½ columns.
- DANGERS OF COAL MINING: Gases and Explosions.** Min. & Sci. Press, vol. 23, p. 310. ½ column.
- MINE EXPLOSIONS (Explosives).** E. & M. J., vol. 5, p. 81. 1 column.
- RECOIL OF GAS EXPLOSIONS IN MINE ENTRIES.** M. & M., vol. 20, p. 332. 2 columns. I.
- SCOFIELD MINE DISASTER, UTAH.** By D. Maguire. M. & M., vol. 20, p. 485. 3 columns. I.
- CAUSES OF EXPLOSIONS IN MINES.** E. & M. J., vol. 25, p. 12. 1 column.
- EXPLOSIONS IN COAL MINES.** By J. W. Thomas. E. & M. J., vol. 21, p. 36. 1½ columns.
- THE AFTER-DAMP EXPLOSIONS IN COAL MINES.** By J. W. Thomas. E. & M. J., vol. 19, p. 166. 2½ columns.
- THE OAKS COLLIERY EXPLOSION.** Am. Jour. Min., vol. 2, p. 218. 1½ columns.
- THE RECENT COLLIERY EXPLOSIONS.** Am. Jour. Min., vol. 2, p. 225. 2 columns.
- THE GAYLORD DISASTER.** Coll. Engr. & Met. Miner, vol. 14, p. 207. ¾ column.
- THE ACCIDENT AT SOUTH WILKES-BARRE, PA.** Coll. Engr. & Met. Miner, vol. 14, p. 288. 1½ columns.
- THE BAST COLLIERY DISASTER.** Coll. Engr. & Met. Miner, vol. 8, p. 66. 1½ columns.
- FATAL MINING EXPLOSIONS IN ENGLAND DURING THE LAST HALF-CENTURY.** Coll. Engr. & Met. Miner, vol. 8, p. 77. 1½ columns.
- THE KANSAS MINE DISASTER (Explosion).** Coll. Engr., vol. 9, p. 76. 5 columns.
- THE EXPLOSION AT THE KETTLE CREEK COAL-MINE.** Coll. Engr., vol. 9, p. 87. 6½ columns.
- TWO SERIOUS EUROPEAN EXPLOSIONS.** Coll. Engr., vol. 9, p. 103. 1 column.
- POPULAR IDEAS ABOUT EXPLOSIONS.** Coll. Engr., vol. 9, p. 111. 2½ columns.

- CONDITIONS IN MINES LEADING TO EXPLOSIONS.** Coll. Engr., vol. 9, p. 112. 4 columns.
- REMEDIAL MEASURES FOR EXPLOSIONS.** Coll. Engr., vol. 9, p. 113. 2½ columns.
- EXPLOSIONS IN COAL-MINES.** By W. Seddon. Coll. Engr., vol. 9, p. 151. 1 column +.
- EXPLOSIONS IN MINES.** Coll. Engr., vol. 9, p. 151. 1½ columns.
- A TERRIBLE EXPLOSION OF GAS, NANTICOKE, PA.** Coll. Engr., vol. 9, p. 158. ½ column.
- EXPLOSIONS IN COAL-MINES.** By R. P. W. Oswald. Coll. Engr., vol. 9, p. 232. 6½ columns.
- THE NOTTINGHAM EXPLOSION.** Coll. Engr., vol. 10, p. 160. 1 column.
- THE KETTLE CREEK DISASTER.** Coll. Engr., vol. 10, p. 186. 3¾ columns. I.
- THE ASHLEY DISASTER.** Coll. Engr., vol. 10, p. 255. 1½ columns.
- THE DUNBAR DISASTER (Explosion).** Coll. Engr., vol. 10, p. 219. ½ column.
- Coll. Engr., vol. 11, p. 17. 4½ columns.
- THE MAMMOTH COLLIERY DISASTER.** Coll. Engr., vol. 11, p. 160, p. 177. 2½ columns.
- COLLIERY EXPLOSIONS.** Coll. Engr., vol. 11, p. 176, 3 columns; p. 259; p. 268.
- THE JEANESVILLE DISASTER.** Coll. Engr., vol. 11, p. 196. 1½ columns.
- ON PRECAUTIONARY MEASURES AGAINST EXPLOSIONS OF FIRE-DAMP.** By M. Hoernecke. E. & M. J., vol. 37, p. 256, 2¾ columns; p. 272, 3½ columns; p. 310, 2½ columns; p. 330, 2½ columns; p. 368, 3 columns; p. 404, 2½ columns; 462, 480.
- THE NANTICOKE DISASTER.** E. & M. J., vol. 41, p. 18. 1½ columns. I.
- MINE GASES AND EXPLOSIONS.** Second Geol. Survey Pa. A. C., p. 379. 18 pages.
- THE FIRE IN THE SUNDAY CREEK COAL COMPANY'S MINE No. 10.** By E. H. Coxe and C. H. Thompson. E. & M. J., vol. 63, p. 511. 3¼ columns.
- THE ZEIGLER MINE EXPLOSION.** M. & M., vol. 25, p. 552. 2 columns. I.
- RUSH RUN MINE EXPLOSIONS.** M. & M., vol. 26, p. 80. 4½ columns. I.
- THE RUSH RUN MINE EXPLOSION.** E. & M. J., vol. 79, p. 1232. 4 columns.
- MINE EXPLOSIONS IN WALES.** E. & M. J., vol. 80, p. 674. 1 column.
- THE CLYDACH VALE EXPLOSION, SOUTH WALES.** By J. Ashworth. M. & M., vol. 26, p. 154. 7 columns. I.
- THE FERNIE EXPLOSION.** By W. Blakemore. T. I. M. E., vol. 24, p. 450, 27 pages. I.
- THE RÔLE OF IGNORANCE IN MINE EXPLOSIONS.** T. I. M. E., vol. 46, p. 79. 1½ columns.
- MINE EXPLOSIONS: History and Causes of Those in the Bituminous Regions of Pennsylvania since 1883.** By A. King. M. & M., Mar., 1902, p. 353. 5½ columns.
- PEABODY COAL MINE EXPLOSION.** By R. Newsam. M. & M., Apr., 1905, p. 440. 3½ columns. I.
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- THE JEANESVILLE, PA., MINE DISASTER.** E. & M. J., vol. 51, p. 447. 1½ columns.
- THE RED ASH MINE EXPLOSION IN WEST VIRGINIA.** E. & M. J., vol. 69, p. 680, 2 columns; and p. 675.
- THE PORT ROYAL MINE EXPLOSION.** E. & M. J., vol. 71, p. 780. 1½ columns. I.
- THE BIRMINGHAM DISASTER.** E. & M. J., Mar. 2, 1905, p. 431. 1½ columns.
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**EXPLOSIONS FROM UNKNOWN CAUSES.**

By G. R. Green. T. A. I. M. E., vol. 19, p. 18; vol. 20, p. 85.

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**THE POCAHONTAS MINE-EXPLOSION.**

By J. H. Bramwell, S. M. Buck and E. H. Williams. T. A. I. M. E., vol. 13, p. 237.

**EXAMPLES OF EXPLOSIONS IN COAL MINES.** T. A. I. M. E., vol. 26, pp. 121, 128.

**EXPLOSIONS FROM UNKNOWN CAUSES.**

By J. C. Bayles. T. A. I. M. E., vol. 19, p. 18.

**DISASTER AT POCAHONTAS MINES.** By C. S. Thorpe. M. & M., Jan., 1902, p. 262. 2 columns.

**THE EXPLOSION AT THE RED-ASH COLLIERY, FAYETTE COUNTY, WEST VIRGINIA.** By W. N. Page. T. A. I. M. E., vol. 30, p. 854.

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**SOME ASPECTS OF RECENT COLLIERY EXPLOSIONS.** By H. Hall. T. F. I. M. E., vol. 11, p. 526. 9 pages.

**THE CAUSES OF DEATH IN COLLIERY EXPLOSIONS.** By J. S. Haldane. T. F. I. M. E., vol. 11, p. 502, 12 pages; vol. 11, p. 519, 7 pages; vol. 12, p. 61, 14 pages; vol. 12, p. 102, 3 pages; vol. 12, p. 533, 10 pages; vol. 13, p. 283, 6 pages.

**SUGGESTED RULES FOR THE RECOVERY OF COAL-MINES AFTER EXPLOSIONS.** By W. E. Garforth. T. F. I. M. E., vol. 14, p. 495. 41 pages.

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- AN INQUIRY INTO THE CAUSE OF THE TWO SEAHAM EXPLOSIONS, 1871 AND 1880, AND THE POCHIN EXPLOSION, 1884. By T. H. M. Stratton. T. F. I. M. E., vol. 3, p. 385. 25 pages. I.
- THE RATE OF EXPLOSIONS IN GASES. By H. B. Dixon. T. F. I. M. E., vol. 3, p. 312. 10 pages.
- EXPLOSIONS IN NOVA SCOTIAN COAL-MINES. By E. Gilpin. T. F. I. M. E., vol. 8, p. 143. 18 pages.
- REPORT OF COMMISSION ON EXPLOSIONS FROM COAL DUST. T. F. I. M. E., vol. 8, p. 36, 10 pages; vol. 8, p. 593, 16 pages; vol. 9, p. 206, 13 pages; vol. 9, p. 274, 6 pages; vol. 10, p. 38, 6 pages; vol. 10, p. 503, 10 pages.
- THE COURRIERES COLLIERY DISASTER. By M. Vingoe. E. & M. J., vol. 81, p. 1193. 3 columns. I.
- CONSIDERATIONS OF THE SUPPOSED . ATMOSPHERIC INFLUENCE IN CONNECTION WITH COLLIERY EXPLOSIONS. By J. Warburton. Coll. Engr., vol. 8, p. 257. 8 columns. D.
- THE VELOCITY OF THE EXPLOSIONS IN GASES. E. & M. J., vol. 45, p. 235. 1½ columns.
- SEASONS IN THE UNITED STATES AND EUROPE WHEN MINE EXPLOSIONS USUALLY OCCUR. E. & M. J., vol. 83, p. 1056. Note.
- BAROMETRIC PRESSURE AS A CAUSE OF MINE EXPLOSIONS. E. & M. J., vol. 83, p. 1052. 2 columns.
- BAROMETRIC PRESSURE AND SIMULTANEOUS EXPLOSIONS OF GAS IN EUROPEAN COLLIERIES. E. & M. J., vol. 83, p. 1055. 2 columns.
- MINE EXPLOSIONS AND ATMOSPHERIC PRESSURE. E. & M. J., vol. 83, p. 726. 1 column.  
E. & M. J., vol. 83, p. 774. 1 column.
- THE RELATION OF BAROMETRIC PRESSURE TO MINE EXPLOSIONS. By F. W. Parsons. E. & M. J., vol. 82, p. 923. 7 columns. D.
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- THE EFFECT OF BAROMETRIC VARIATION ON THE OUTFLOW OF GAS IN MINES. By W. H. Booth. E. & M. J., vol. 84, p. 407. 2 columns.
- INCREASED PRESSURE FOLLOWING MINE EXPLOSIONS CAUSE OF LOSS OF LIFE. E. & M. J., vol. 82, p. 786. Note.
- FIRE-DAMP EXPLOSIONS AND SUDDEN ATMOSPHERIC DEPRESSIONS. E. & M. J., vol. 59, p. 487. ¼ column.

**Poisoning and Injuries**

**AN EXPERIMENT IN CYANIDE POISONING.** By A. M. Johnston. P. C. & M. Soc. S. A., vol. 2, p. 676. 7½ pages.

**GASEOUS POISONING.** P. C. M. & M. Soc. S. A., vol. 5, p. 192. 4 columns.

**NOTES ON THE PERSISTENCE OF CYANIDE IN THE STOMACH AFTER DEATH.** By W. H. Jollyman. P. C. M. & M. Soc. S. A., vol. 5, p. 170. 3½ columns.

**CHLOROFORM AS AN ANTIDOTE AGAINST NITROUS VAPORS.** By A. Prister. P. C. M. & M. Soc. S. A., vol. 5, p. 63. 1 page.

**NINE MEN KILLED BY CARBON MONOXIDE.** M. & M., vol. 28, p. 21. 1 column.

**ANTIDOTE FOR ASPHYXIATION BY MINE GAS.** E. & M. J., vol. 84, p. 1076. Note.

**TREATMENT FOR ELECTRICAL SHOCKS.** By R. Lee. E. & M. J., vol. 83, p. 999. 1 column.

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**LEAD POISONING: Antidote.** Min. & Sci. Press, vol. 45, p. 17, 1 column, and p. 81, 1 column.

**THE TREATMENT OF BLEEDING WOUNDS.** Min. & Sci. Press, vol. 36, p. 343. ½ column.

**POISON OAK AND ITS ANTIDOTES.** Min. & Sci. Press, vol. 35, p. 359. 1 column.

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**CARBONIC ACID NOT A POISON.** Min. & Sci. Press, vol. 28, p. 199. ½ column.

**MINERS BLINDED (BY GAS) IN THE UTAH MINE.** Min. & Sci. Press, vol. 28, p. 139, ½ column; p. 140, ½ column.

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**THE STATE HOSPITAL FOR INJURED MINERS AT ASHLAND, PA.** Coll. Engr., vol. 8, p. 61. 10½ columns. I.

**INJURY TO MINER'S EYESIGHT BY SAFETY LAMPS.** E. & M. J., vol. 52, p. 77. 1 column.

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- CYANIDE POISONING. M. & M., Sept., 1903, p. 80. 1 column.
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- AN IMPROVED AMBULANCE-CARRIAGE AND STRETCHER FOR USE IN MINES. By H. R. Hewitt. T. I. M. E., vol. 16, p. 377. 5 pages. I.
- AMBULANCE-INSTRUCTIONS AT MINES. By W. Leck. T. I. M. E., vol. 25, p. 354. 16 pages.
- RESULT OF AN EXPERIMENTAL RESEARCH INTO CHOKE-DAMP POISONING, WITH SPECIAL REFERENCE TO OXYGEN AS A RESTORATIVE. By W. E. Thompson. T. F. I. M. E., vol. 6, p. 526, 8 pages, and vol. 7, p. 337, 7 pages.
- SAVING OF LIFE FROM AFTER-DAMP, SMOKE, OR FUMES IN MINES. By S. Tate. T. F. I. M. E., vol. 8, p. 189. 6 pages. I.
- THE PRESERVATION OF LIFE IN THE WITWATERSRAND MINES. By T. L. Carter. E. & M. J., vol. 74, p. 279. 2 columns.
- A MINE AMBULANCE. E. & M. J., vol. 75, p. 486.  $\frac{1}{2}$  column. I.
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- THE ASPHYXIATION OF BLAST-FURNACE WORKMEN. By B. H. Thwaite. E. & M. J., vol. 80, p. 632.  $4\frac{1}{2}$  columns. I.
- ### Powder Explosions
- PECULIAR EXPLOSION OF A POWDER THAWER. By M. W. Alderson. Min. & Sci. Press, vol. 89, p. 237, 1 column, and p. 272,  $\frac{1}{2}$  column. I.
- THE OMAHA MINE ACCIDENT (Powder Explosion). Min. & Sci. Press, vol. 64, p. 186.  $\frac{1}{2}$  column.
- THE DALY-WEST MINE EXPLOSION. E. & M. J., vol. 74, p. 106. 1 column.
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- DANGER IN THE CUT-OFF HOLE. Min. & Sci. Press, vol. 86, p. 405. 1 column.
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- EXPLOSION OF FIRE-DAMP BY LIGHTNING—THE WIRE ROPE BEING THE CONDUCTOR. E. & M. J., vol. 56, p. 617.  $\frac{1}{2}$  column.
- LIGHTNING SHOCKS IN A MINE TUNNEL. E. & M. J., vol. 84, p. 171.  $\frac{1}{2}$  column.



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- A COMPARISON OF THE NEEDLE AND BARREL METHODS OF BLASTING IN COAL MINING. By L. Gluck. E. & M. J., vol. 49, p. 223.  $\frac{3}{4}$  column. I.
- DAVEY-BICKFORD-SMITH SAFETY SHOT-FIRER. By G. Chesneau. T. I. M. E., vol. 17, p. 269. 4 pages. I.
- THE WOOD PISTOL SHOT-FIRER. T. F. I. M. E., vol. 8, p. 384. 1 page. I.
- THE WALKER HOLLOW NEEDLE FOR FIRING HIGH EXPLOSIVES. By J. Mein. T. F. I. M. E., vol. 14, p. 164. 5 pages. I.
- COMPRESSED LIME CARTRIDGES. E. & M. J., vol. 41, p. 152. Note.
- THE SETTLE WATER CARTRIDGE FOR FIERY COAL MINES. E. & M. J., vol. 41, p. 154. Note.

### Use of Compressed Air in Blasting

- BLASTING BY COMPRESSED AIR. Min. & Sci. Press, vol. 39, p. 307.  $\frac{1}{2}$  column.
- LIQUID AIR AS AN EXPLOSIVE. E. & M. J., vol. 69, p. 170; vol. 68, p. 514; and vol. 65, p. 548.
- LIQUID AIR EXPLOSIVES. M. & M., vol. 26, p. 106. Note.
- ON SOME EXPERIMENTS MADE WITH COMPRESSED AIR FOR BRINGING DOWN COAL. By E. Craig. T. N. S. I. M. & M. E., vol. 6, p. 83. 14 pages. I.
- LIQUID AIR AND ITS USE AS AN EXPLOSIVE. T. I. M. E., vol. 19, p. 164. 6 pages.
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### Arrangement of Holes in Blasting

- METHOD OF BLASTING IN THE TUNNELING OPERATIONS OF THE ANTHRACITE FIELDS. E. & M. J., vol. 84, p. 503.  $\frac{1}{2}$  column.
- ARRANGEMENT OF HOLES IN DRIVING THE NEWHOUSE TUNNEL. M. & M., vol. 27, pp. 36 and 37.  $\frac{1}{2}$  column.
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- ARRANGEMENT OF HOLES FOR BLASTING IN PARKER SHAFT, FRANKLIN FURNACE, N. J. M. & M., vol. 20, p. 482.

- ARRANGEMENT OF HOLES IN SINKING ROUND SHAFTS OR PITTS. T. F. I. M. E., vol. 8, plate 1. I.

### Tamping and Tamping Materials

- TAMPING AND TAMPING MATERIAL. E. & M. J., vol. 83, p. 1107. Notes.
- THE TAMPING OF SHOTS IN MINES. T. I. M. E., vol. 26, p. 626. 1 page.
- COLORADO LAW AGAINST USE OF IRON TAMPING ROD. Min. & Sci. Press, vol. 87, p. 333. Note.
- WOOD PULP AS TAMPING: Used in Coal Mines, with Dynamite, in Utah. Min. & Sci. Press, vol. 90, p. 314. Note.
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- INTERMEDIATE SAND TAMPING IN BLASTING: To Spread Force of Explosion. E. & M. J., vol. 81, p. 277. 1 column.
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- TAMPING DRILL-HOLES WITH PLASTER OF PARIS. By F. Firmstone. T. A. I. M. E., vol. 12, p. 574.
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- THE HYDRAULIC MINING CARTRIDGE. E. & M. J., vol. 82, p. 65.  $1\frac{1}{2}$  columns. I.

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**NOTES ON RECENT EXPERIMENTS WITH MECHANICAL TAMPS.** By W. R. Crane. E. & M. J., vol. 74, p. 814. 6 columns. I.

**TAMPING HOLES CHARGED WITH HIGH EXPLOSIVES.** E. & M. J., vol. 37, p. 100. Note.

**AN ILLUSTRATION OF THE RESULT OF TAMPING DYNAMITE WITH AN IRON ROD.** E. & M. J., vol. 72, p. 104.  $\frac{1}{2}$  column. I.

### Quantity of Explosive that should be Used

**AMOUNT OF EXPLOSIVE.** M. & M., vol. 27, p. 514. Note.

**DEPTH OF HOLES AND QUANTITY OF POWDER USED IN THE "GLORY-HOLE" SYSTEM OF MINING AT THE HOMESTAKE MINES.** Min. & Sci. Press, vol. 90, p. 404. Note.

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**RULE FOR DETERMINING THE WEIGHT OF BLACK POWDER TO USE IN ANY GIVEN HOLE, IN BITUMINOUS WORKINGS.** M. & M., vol. 20, p. 367.

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**THE GREAT BLAST AT GLENDON, EASTON, PA.** By E. Clark. T. A. I. M. E., vol. 7, p. 266.

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**PLACING POWDER IN LARGE (MAMMOTH) BLASTS.** T. A. I. M. E., vol. 7, p. 280.

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- THE HELL GATE IMPROVEMENTS.** E. & M. J., vol. 40, p. 288,  $6\frac{1}{2}$  columns, I.; and p. 384, 3 columns.
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- THE HELL GATE OBSTRUCTIONS.** E. & M. J., vol. 13, p. 200. 1 column.
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## CHEMISTRY: METHODS AND PRACTICE

- SOLUTIONS.** By A. A. Watson. Min. & Sci. Press, vol. 84, p. 35.  $1\frac{1}{2}$  columns.
- THE THEORY OF SOLUTIONS.** By A. Von Oettingen. P. C. & M. Soc. S. A., vol. 2, p. 543.  $10\frac{1}{2}$  pages.
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### Determination of Bismuth, Molybdenum, Mercury, Tellurium, Wolfram, etc.

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**TWENTY YEARS' PROGRESS IN THE CONCENTRATION OF SULPHURIC ACID.**

By W. H. Adams. T. A. I. M. E., vol. 16, p. 496.

**SULPHURIC ACID IN RUSSIA.** E. & M. J., Mar. 16, 1905, p. 512.  $\frac{3}{4}$  column.**ACID MAKING FROM PYRRHOTITE.** By E. A. Sjöstedt. J. C. M. I., vol. 7, p. 480. 14 $\frac{1}{2}$  pages. I.**MANUFACTURE OF SULPHURIC ACID IN FLORIDA.** E. & M. J., vol. 82, p. 529. 1 $\frac{1}{2}$  columns.**MOND'S NEW PROCESS OF OBTAINING CHLORINE.** E. & M. J., vol. 59, p. 31. 2 $\frac{1}{2}$  columns. I.**ROESSLER'S METHOD OF MANUFACTURING SULPHURIC ACID AND SULPHATE OF COPPER.** By A. F. Wendt. T. A. I. M. E., vol. 12, p. 274.**THE MANUFACTURE OF LIQUID SULPHUROUS ACID IN UPPER SILESIA.** By K. Eilers. T. A. I. M. E., vol. 20, p. 336.**Determination of Antimony****DETERMINATION OF ARSENIC, ANTIMONY, COPPER, BISMUTH, IRON, ZINC AND SULPHUR IN LEAD BASE BULLION.** P. E. Soc. W. Pa., vol. 10, p. 160. 4 $\frac{1}{2}$  pages.**VOLUMETRIC ESTIMATION OF ANTIMONY.** E. & M. J., vol. 83, p. 896. 1 column.**VOLUMETRIC ESTIMATION OF ANTIMONY.** By J. Darroch. Min. & Sci. Press, vol. 94, p. 94. 2 columns.**THE VOLUMETRIC ESTIMATION OF ANTIMONY.** By James Darroch. Min. & Sci. Press, vol. 92, p. 419. 1 $\frac{1}{2}$  columns.**VOLUMETRIC DETERMINATION OF ANTIMONY.** Min. & Sci. Press, vol. 84, p. 189.  $\frac{1}{2}$  column.**THE DETERMINATION OF ARSENIC AND ANTIMONY.** By L. B. Skinner. E. & M. J., vol. 74, p. 148. 2 $\frac{1}{2}$  columns.**Methods of Determining Sulphur****ANALYSIS OF CRUDE SULPHUR.** E. & M. J., vol. 75, p. 854. Note.**THE VOLUMETRIC DETERMINATION OF SULPHUR AND AMMONIA IN ILLUMINATING GAS.** By H. E. Saddler and B. Silliman. T. A. I. M. E., vol. 5, p. 387.**DETERMINATION OF SULPHUR IN ROASTED ZINC BLEND.** By V. Hassreidter. E. & M. J., vol. 83, p. 905. 2 columns.**DETERMINATION OF SULPHUR IN ROASTED ZINC BLEND.** By J. G. Heid. E. & M. J., vol. 62, p. 178.  $\frac{1}{2}$  column.**THE ESTIMATION OF SULPHUR IN REFINED COPPER.** By G. L. Heath. E. & M. J., vol. 61, p. 205. 1 $\frac{1}{2}$  columns.**ESTIMATION OF SULPHUR IN COAL.** Min. & Sci. Press, vol. 49, p. 177.  $\frac{1}{2}$  column.**COAL TESTING: Methods of Determining Sulphur and Ash in Coal and Coke.** By M. Brown. M. & M., vol. 26, p. 326, 3 $\frac{1}{2}$  columns; p. 470, 2 $\frac{1}{2}$  columns.**ESCHKA'S METHOD OF DETERMINING SULPHUR IN COAL.** By F. Hundeshagen. E. & M. J., vol. 54, p. 320.  $\frac{1}{2}$  column.**DETERMINATION OF SULPHUR IN COAL AND COKE.** E. & M. J., vol. 77, p. 202.  $\frac{1}{2}$  column.**THE DETERMINATION OF SULPHUR IN COAL.** By C. W. Stoddart. E. & M. J., vol. 75, p. 968. 3 columns.**DETERMINATION OF SULPHUR IN COKE AND COAL.** By R. Helmhaecker. E. & M. J., vol. 62, p. 106.  $\frac{1}{2}$  column.**ESTIMATING SULPHUR IN COAL.** E. & M. J., vol. 66, p. 307. 1 column.**THE DETERMINATION OF SULPHUR IN SULPHIDES AND IN COAL AND COKE.** By T. M. Drown. T. A. I. M. E., vol. 8, p. 569.**RELATIONS OF SULPHUR IN COAL AND COKE.** By J. P. Kimball. T. A. I. M. E., vol. 8, p. 181.

AN ACCURATE ESTIMATION OF SULPHUR IN IRON BY THE EVOLUTION METHOD. By H. E. Walters and Robt. Miller. P. E. Soc. W. Pa., vol. 18, p. 83. 4½ pages.

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SULPHUR DETERMINATION IN STEEL. By M. Troilius. T. A. I. M. E., vol. 12, p. 507.

### Gold and Silver Analysis

NOTE ON A FORM OF SILVER OBTAINED IN THE REDUCTION OF THE SULPHIDE BY HYDROGEN. By F. C. Phillips. P. E. Soc. W. Pa., vol. 10, p. 130. 2½ pages.

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QUANTITATIVE DETERMINATION OF VERY SMALL QUANTITIES OF SILVER. E. & M. J., vol. 38, p. 195. 1 column.

THE CONDITION OF SILVER IN A SAMPLE OF LITHARGE. By C. E. Wait. T. A. I. M. E., vol. 15, p. 463.

ELECTROLYTIC ANALYSIS OF GOLD. E. & M. J., vol. 77, p. 553. ½ column.

### Methods of Determining Phosphorus

PHOSPHORUS IN THE ASHES OF ANTHRACITE COALS. By J. B. Britton. T. A. I. M. E., vol. 1, p. 298.

THE DETERMINATION OF PHOSPHORUS IN COAL AND COKE. By J. Lychenheim. T. A. I. M. E., vol. 24, p. 66 and p. 862.

A RAPID METHOD FOR THE DETERMINATION OF PHOSPHORUS. By F. A. Emmerton. T. A. I. M. E., vol. 15, p. 93.

THE DETERMINATION OF PHOSPHORUS. By J. Westesson. T. A. I. M. E., vol. 13, p. 405.

NOTES ON EMMERTON'S METHOD OF THE DETERMINATION OF PHOSPHORUS. By H. C. Babbitt. T. A. I. M. E., vol. 21, p. 794.

THE EXACT DETERMINATION OF PHOSPHORUS BY A MOLYBDATE METHOD IN IRON, STEEL AND ORES WHICH CONTAIN ARSENIC. By J. O. Handy. P. E. Soc. W. Pa., vol. 9, p. 377. 5 pages.

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**THE ESTIMATION OF TITANIUM AND PHOSPHORUS IN IRON ORES.** By E. P. Jennings. E. & M. J., vol. 45, p. 475.  $\frac{1}{2}$  column.

**THE ANALYSIS OF IRON ORES CONTAINING BOTH PHOSPHORIC AND TITANIC ACIDS.** By T. M. Drown and P. W. Shimer. E. & M. J., vol. 32, p. 353.  $2\frac{1}{2}$  columns.

**A RAPID METHOD FOR THE DETERMINATION OF PHOSPHORUS IN CERTAIN ORES.** By T. Reed Woodbridge. T. A. I. M. E., vol. 17, p. 750.

**PHOSPHATE CHEMISTRY AS IT CONCERNS THE MINER.** By T. C. Chatard. T. A. I. M. E., vol. 21, p. 160.

**NOTE ON THE DETERMINATION OF PHOSPHORUS IN IRON.** By F. E. Bachman and F. Julian. T. A. I. M. E., vol. 10, p. 322; vol. 12, p. 518.

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**INSOLUBLE PHOSPHORUS IN IRON ORES.** By C. T. Mixer. E. & M. J., vol. 62, p. 4. 1 column.

### Methods of Determining Lead

**THE DETERMINATION OF LEAD IN ALLOYS.** By W. E. Garrigues. P. E. Soc. W. Pa., vol. 14, p. 80. 3 pages.

**EXPERIENCE WITH VON SCHULZ AND LOW'S METHOD FOR LEAD ESTIMATION IN ORES.** P. E. Soc. W. Pa., vol. 8, p. 120. 6 pages.

**DETERMINATION OF LEAD IN GALENA.** Min. & Sci. Press, vol. 82, p. 132. Note.

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**THE COMMERCIAL WET LEAD ASSAY.** E. & M. J., vol. 78, p. 221.  $1\frac{1}{2}$  columns.

**THE DETERMINATION OF LEAD, IRON, LIME, SULPHUR, CADMIUM AND COPPER IN COMMERCIAL ZINC ORES.** By W. G. Waring. E. & M. J., vol. 78, p. 298.  $4\frac{1}{2}$  columns.

**THE ACTION OF SULPHURIC AND NITRIC ACID ON LEAD OF DIFFERENT DEGREES OF PURITY.** By G. Lunge. E. & M. J., vol. 55, p. 8, 3 columns; p. 32,  $1\frac{1}{2}$  columns; p. 56,  $2\frac{1}{2}$  columns.

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### Methods of Determining Zinc

**TITRATION OF ZINC IN ALKALINE SOLUTION.** By E. B. Van Osdell. E. & M. J., vol. 84, p. 730.  $2\frac{1}{2}$  columns.

**THE FERROCYANIDE METHOD FOR THE DETERMINATION OF ZINC.** E. & M. J., vol. 83, p. 850.  $1\frac{1}{2}$  columns.

**DETECTION OF WILLEMITE BY PHOSPHORESCENCE.** By E. K. Judd. E. & M. J., vol. 83, p. 803.  $1\frac{1}{2}$  columns.

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**THE SEPARATION OF IRON FROM ZINC BY AMMONIA.** By K. Pietrusky. Min. & Sci. Press, vol. 92, p. 74. 2 columns.

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**MANUFACTURE OF ZINC PIGMENTS.** By E. W. Buskett. M. & M., vol. 28, p. 193.  $2\frac{1}{2}$  columns. I.

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- ANALYSIS OF FRANKLINITE AND SOME ASSOCIATED MINERALS.** By Geo. C. Stone. Sch. Mines Quart., vol. 8, p. 148. 4 pages.
- THE VOLUMETRIC ESTIMATION OF ZINC.** By B. C. Hinman. Sch. Mines Quart., vol. 14, p. 40. 6 pages.
- THE ESTIMATION OF ZINC.** By H. Nissenon and W. Kettembeil. E. & M. J., vol. 80, p. 970, 7 columns; and p. 1075, 1½ columns.
- NOTES ON THE METHOD OF PREPARATION OF ZINC OXIDE.** By C. P. Williams. T. A. I. M. E., vol. 5, p. 422.
- ANALYSIS OF THE FRANKLINITE ORES OF NEW JERSEY.** By P. De F. Ricketts. E. & M. J., vol. 35, p. 235. 1½ columns.
- Chemical Analysis in Cyaniding**
- ANALYTICAL WORK IN CONNECTION WITH THE CYANIDE PROCESS.** By J. E. Clennell. T. I. M. & M., vol. 12, p. 367. 25 pages.
- NOTES ON THE ESTIMATION OF SULPHIDES IN CYANIDES.** By J. Loevy. P. C. & M. Soc. S. A., vol. 2, p. 608. 3½ pages.
- NOTES ON THE ANALYSIS OF CYANIDE SOLUTIONS.** By A. F. Crosse. P. C. & M. Soc. S. A., vol. 3, p. 1. 13 pages.
- ESTIMATION OF THE CHIEF CONSTITUENTS IN CYANIDE SOLUTIONS.** By J. E. Clennell. E. & M. J., vol. 79, p. 1230. 5½ columns.
- THE COLORIMETRIC ESTIMATION OF GOLD IN CYANIDE SOLUTIONS.** By H. R. Cassel. E. & M. J., vol. 76, p. 661. 2 columns.
- DETERMINATION OF GOLD AND SILVER IN CYANIDE SOLUTIONS.** E. & M. J., vol. 76, p. 844. ½ column.
- ELECTROLYTIC ANALYSIS OF GOLD.** E. & M. J., vol. 77, p. 553. ½ column.
- AN EXAMINATION OF THE VARIOUS METHODS FOR THE ESTIMATION OF FERROCYANIDES.** By J. E. Clennell. E. & M. J., vol. 76, p. 698. 9½ columns.
- ESTIMATION OF CYANOGEN IN IMPURE SOLUTIONS.** By J. E. Clennell. E. & M. J., vol. 59, p. 584, 3½ columns, I.; vol. 76, p. 13, 2½ columns; vol. 75, p. 968, 2 columns.
- THE TITRATION, USE AND PRECIPITATION OF CYANIDE SOLUTIONS CONTAINING COPPER.** By W. H. Virgoe. T. I. M. & M., vol. 10, p. 103. 42 pages.
- A METHOD OF TESTING CYANIDE SOLUTIONS CONTAINING ZINC.** By L. M. Green. T. I. M. & M., vol. 10, p. 29. 12 pages.
- DECOMPOSITION OF AURIC CHLORIDE.** By C. Vautin. T. I. M. & M., vols. 1 and 2, p. 273.
- ESTIMATION OF CYANIDE.** By A. Adair. E. & M. J., vol. 75, p. 563. 1 column.
- CONTRIBUTIONS TO THE CHEMISTRY OF THE CYANIDE PROCESS.** By E. A. Schneider. E. & M. J., vol. 60, p. 489, 1½ columns; and p. 514, 1½ columns.
- THE CHEMISTRY OF THE CYANIDE PROCESS: Is Zinc Potassium Cyanide a Solvent for Gold?** By J. S. C. Wells. E. & M. J., vol. 60, p. 585. 1½ columns.
- ANALYSES OF CYANIDE MILL SOLUTIONS.** By W. J. Sharwood. E. & M. J., vol. 66, p. 216. 1 column.
- RATE OF SOLUTION OF GOLD IN POTASSIUM CYANIDE.** By T. H. Plunkett. Canadian Mining Review, Sept. 30, 1904. 1½ columns.  
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**Methods of Determining Arsenic**

**A RAPID METHOD OF DETERMINING ARSENIC IN ARSENOPIRYRITE.** By J. L. Danziger and W. H. Buckhout. Sch. Mines Quart., vol. 24, p. 400. 5 pages.

**DETERMINATION OF ARSENIC IN BASE LEAD BULLION.** P. E. Soc. W. Pa., vol. 10, p. 164. 4½ pages.

**THE DETERMINATION OF ARSENIC AND ANTIMONY.** By L. B. Skinner and R. H. Hawley. E. & M. J., vol. 74, p. 148. 2½ columns.

**NOTE ON ARSENIC DETERMINATION.** By R. C. Canby. T. A. I. M. E., vol. 17, p. 77.

**DETERMINATION OF ARSENIC IN STEEL, AND IRON AND IRON ORES.** By J. E. Stead. E. & M. J., vol. 59, p. 608. 1 column.

**Determination of Cobalt, Nickel, Tungsten and Tin**

**A RAPID METHOD FOR THE DETERMINATION OF NICKEL IN STEEL.** By A. T. Eastwick. P. E. Soc. W. Pa., vol. 9, p. 170. 2½ pages.

**DETERMINATION OF TUNGSTEN IN STEEL.** By P. Kemery. P. E. Soc. W. Pa., vol. 9, p. 173. 3 pages.

**DETERMINATION OF TIN IN TAILINGS AND SLIMES.** By G. L. Mackenzie. T. I. M. & M., vol. 13, p. 87. 16 pages. I.

**THE ANALYSIS OF TIN PLATE FOR TIN, LEAD, IRON AND MANGANESE.** P. E. Soc. W. Pa., vol. 8, p. 182. 7 pages.

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**THE ANALYSIS OF TIN AND TERNE PLATE.** E. & M. J., vol. 54, p. 610. ½ column.

**QUANTITATIVE DETERMINATION OF TUNGSTEN IN ORES.** E. & M. J., vol. 71, p. 720. ½ column.

**DETECTION OF NICKEL IN PRESENCE OF COBALT.** E. & M. J., vol. 54, p. 59. ½ column.

**QUANTITATIVE ESTIMATION OF TIN.** By C. J. Brooks. E. & M. J., vol. 61, p. 494. ½ column.

**Coal Analysis**

**THE CHEMICAL COMPOSITION OF COAL.** By E. Lecocq. M. & M., vol. 20, p. 435. ½ column.

**DETERMINATION OF ASH IN COAL.** E. & M. J., vol. 78, p. 507. ½ column.

**A CONTRIBUTION TO THE CHEMISTRY OF COAL, WITH SPECIAL REFERENCE TO THE COALS OF THE CLYDE BASIN.** By W. C. Anderson. T. I. M. E., vol. 16, p. 335. 24 pages. I.

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**Methods of Determining Copper**

**A NEW VOLUMETRIC METHOD FOR COPPER AND THE ORES OF COPPER.** By A. Adair. P. C. & M. & M. Soc. S. A., vol. 6, p. 188. 4 columns.

**INFLUENCE OF IRON IN COPPER ELECTROLYSIS.** By E. L. Larison. E. & M. J., vol. 84, p. 442. 3½ columns.

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- THE ANALYSIS OF REFINED COPPER. E. & M. J., vol. 61, p. 157. 1 column.
- DETERMINATION OF COPPER. E. & M. J., vol. 79, p. 1053. 1½ columns.
- ESTIMATION OF COPPER BY POTASSIC ACID. By W. F. Brugman. E. & M. J., vol. 47, p. 459. 1½ columns.
- DETERMINATION AND DETECTION OF COPPER. By M. Haupt. E. & M. J., vol. 58, p. 511. 1½ columns.
- NEW VOLUMETRIC METHOD FOR THE ESTIMATION OF COPPER. By M. F. W. Weil. E. & M. J., vol. 11, p. 163. 2 columns.
- THE CHEMISTRY AND METALLURGY OF COPPER. By C. S. Palmer. E. & M. J., vol. 78, p. 622, 7 columns; p. 709, 4½ columns; p. 908, 4 columns.
- THE IODOMETRIC DETERMINATION OF COPPER. By A. M. Fairlie. E. & M. J., vol. 78, p. 787, 3 columns; p. 1023, 2 columns.
- THE ELECTROLYTIC DETERMINATION OF COPPER, AND THE FORMATION AND COMPOSITION OF SO-CALLED ALLOTROPIC COPPER. By J. B. Mackintosh. T. A. I. M. E., vol. 10, p. 57.
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- THE COPPER ASSAY BY THE IODIDE METHOD. By A. H. Low. E. & M. J., vol. 61, p. 446, 1½ columns; and p. 492, 1½ columns.
- A TECHNICAL SCHEME FOR THE RAPID DETERMINATION OF SMALL AMOUNTS OF COPPER IN CHILLED SLAGS. By C. F. Leiby. E. & M. J., vol. 69, p. 708. ¾ column.
- COMPARISON OF VARIOUS METHODS OF COPPER ANALYSIS. By W. E. C. Eustis. T. A. I. M. E., vol. 11, p. 120.
- THE CHEMISTRY AND METALLURGY OF COPPER. By C. S. Palmer. E. & M. J., Mar. 2, 1905, p. 420. 7 columns.
- THE DETERMINATION OF COPPER IN STEEL. By M. Troilius. T. A. I. M. E., vol. 11, p. 292.
- Methods of Determining Iron**
- A RAPID METHOD FOR THE REDUCTION OF FERRIC SULPHATE IN VOLUMETRIC ANALYSIS. By C. Jones. T. A. I. M. E., vol. 17, p. 411 and p. 757.
- NOTES ON IRON ORE ANALYSIS. By C. T. Mixer. P. E. Soc. W. Pa., vol. 12, p. 100. 6 pages.
- STANDARD METHODS FOR THE ANALYSIS OF IRON AND STEEL. By C. B. Dudley. P. E. Soc. W. Pa., vol. 9, p. 282. 34 pages.
- THE EVOLUTION OF THE DETERMINATION OF IRON IN ORES. By H. W. Craver. P. E. Soc. W. Pa., vol. 19, p. 253. 8½ pages.
- DETERMINATION OF CARBON IN STEEL BY DIRECT IGNITION WITH RED LEAD. By C. M. Johnson. P. E. Soc. W. Pa., vol. 21, p. 586. 15 pages. I.
- THE COMPLETE ANALYSIS OF CHROME ORE. P. E. Soc. W. Pa., vol. 13, p. 180. 2½ pages.
- THE ANALYSIS OF CHROME AND TUNGSTEN STEELS. By A. G. M'Kenna. P. E. Soc. W. Pa., vol. 16, p. 119. 4 pages.
- METHOD OF DETERMINING GRAPHITE IN PIG IRON. By A. B. Harrison. P. E. Soc. W. Pa., vol. 16, p. 117. 1 page.
- BICHROMATE TITRATION FOR IRON. E. & M. J., vol. 83, p. 667. ¾ column.
- SOME ASPECTS OF THE ANALYZING AND GRADING OF IRON ORES OF THE GOGEBIC RANGE. By E. A. Separk. T. L. S. M. I., vol. 10, p. 103. 24 pages.
- A SHORT METHOD (ANALYSIS) FOR IRON. By E. B. Van Osdel. Min. & Sci. Press, vol. 93, p. 721. ¾ column.



- ANALYSIS OF IRON ORES OF SWEDEN.** E. & M. J., vol. 24, p. 168. Table.
- DETERMINATION OF "TOTAL CARBON" IN STEEL AND PIG-IRON.** By H. F. Starr. Sch. Mines Quart., vol. 3, p. 290. 2 pages.  
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- METHOD OF DETERMINING CHROMIUM IN CHROME ORE.** By E. Clark. E. & M. J., vol. 59, p. 390. 1 column.
- DETERMINATION OF TUNGSTEN.** By F. Cremer. E. & M. J., vol. 59, p. 345. ¾ column.
- THE CONDITION OF CARBON IN STEEL.** By F. A. Mathewman. E. & M. J., vol. 59, p. 80. 1 column.
- VARIATIONS IN BILBOA IRON ORE.** E. & M. J., vol. 57, p. 439. 1 column.
- METHOD FOR THE DETERMINATION OF IRON IN IRON ORE.** By Mixer and Dubois. E. & M. J., vol. 57, p. 342. ¾ column.
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### COMPRESSED AIR IN MINING

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### Compressed Air Pumping

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## CONCENTRATION

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**MACHINERY FOR METALLIFEROUS MINES.**

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For additional information on Jigging, see JIGS AND JIGGING.

### Jigs and Jigging

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- IMPROVEMENTS IN GOLD AND SILVER AMALGAMATION.** Am. Jour. Min., vol. 1, p. 71. 1½ columns.
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- THE USE OF BICHLORIDE OF MERCURY IN THE SAVING OF FINE GOLD.** By B. T. Wilson. E. & M. J., vol. 49, p. 61, 1½ columns; and p. 243, 1 column.
- AMALGAMATION OF GOLD ORES.** Coll. Engr. & Met. Miner, vol. 17, pp. 268, 300, 344.
- SHAKING AMALGAMATING PLATES.** E. & M. J., vol. 80, p. 265. ¾ column.
- THE WISWELL AMALGAMATING MILL.** E. & M. J., vol. 42, p. 25. 2 columns. I.
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- LIXIVIATION VS. AMALGAMATION.** T. F. I. M. E., vol. 5, p. 336.
- LIXIVIATION AND AMALGAMATION.** T. A. I. M. E., vol. 14, p. 395.
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## Use of Plates in Amalgamation

NOTE ON PLATE-AMALGAMATION. By A. J. Clark. T. A. I. M. E., vol. 29, pp. 459 and 1039; E. & M. J., vol. 68, p. 762. 1½ columns.

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- THE NEW DEPARTURE IN PAN AMALGAMATION.** Min. & Sci. Press, vol. 40, p. 329.  $1\frac{1}{2}$  columns.
- KEEPING COPPER PLATES BRIGHT.** Min. & Sci. Press, vol. 73, p. 28.  $\frac{1}{2}$  column.
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- WOOD ASH, A PRESERVATIVE FOR AMALGAMATION PLATES WHEN NOT IN USE.** Min. & Sci. Press, vol. 84, p. 31. Note.
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- For further information, see **AMALGAMATION**.
- ACTION OF SODIUM AMALGAM IN THE PAN.** Am. Jour. Min., vol. 4, p. 56.  $1\frac{1}{2}$  columns.
- THE BOSS "CONTINUOUS SYSTEM" OF PAN AMALGAMATION.** E. & M. J., vol. 35, p. 86. 1 column. I.
- THE AUSTRIAN GOLD MILL: Similar to Amalgamating Pan.** E. & M. J., vol. 14, p. 113.  $3\frac{1}{2}$  columns. I.
- THE WHEELER PAN.** E. & M. J., vol. 14, p. 417.  $\frac{1}{2}$  column. I.
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- HINTS ON THE WASHOE PROCESS.** Min. & Sci. Press, vol. 30, p. 320, 1 column; p. 337, 1 column; p. 385, 1 column; and p. 401, 1 column.
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- CHEMISTRY OF THE WASHOE PROCESS.** Min. & Sci. Press, vol. 23, p. 248.  $1\frac{1}{2}$  columns.
- PAN AMALGAMATION AGAIN.** Min. & Sci. Press, vol. 26, p. 16.  $1\frac{1}{2}$  columns.
- THE MECHANICS OF PAN AMALGAMATION.** Min. & Sci. Press, vol. 34, p. 362.  $\frac{1}{2}$  column.
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- THE NEW HEPBURN PAN.** Am. Jour. Min., vol. 7, p. 387.  $\frac{1}{2}$  column.
- SILVER SHOES AND DIES (for Amalgamating Pans).** Min. & Sci. Press, vol. 46, p. 401. 1 column. I.

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- PAN VS. TINA AMALGAMATION.** By P. Blanca. E. & M. J., vol. 60, p. 586.  $1\frac{1}{2}$  columns.

**IMPROVING THE AMALGAMATING PAN.** Min. & Sci. Press, vol. 18, p. 211, 1 column.

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# **Washers, Shakers, Riffles, etc.**

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- THE COOK AMALGAMATOR.** E. & M. J., vol. 49, p. 708.  $\frac{1}{2}$  column. I.
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- STEVENOT'S FREE GOLD AMALGAMATOR.** Min. & Sci. Press, vol. 38, p. 153.  $\frac{3}{4}$  column.
- HUNTINGTON AND KOCH AMALGAMATOR.** Min. & Sci. Press, vol. 51, p. 325. 2 columns. I.
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- See PAN AMALGAMATION for further information on AMALGAMATORS.

### The Patio Process of Amalgamation

- THE PATIO PROCESS IN SAN DIMAS, MEXICO.** By R. E. Chism. T. A. I. M. E., vol. 11, p. 61.
- A STUDY OF AMALGAMATION METHODS, ESPECIALLY THE PATIO PROCESS, WITH THE OBJECT OF AVOIDING THE LOSS OF MERCURY.** By Miguel Bustamante, Jr. T. A. I. M. E., vol. 32, p. 484.

**THE PATIO PROCESS IN GUANAJUATO, MEXICO.** By Roberto Fernandez. T. A. I. M. E., vol. 29, p. 116.

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**THE REACTIONS OF THE MEXICAN AMALGAMATION PROCESS.** E. & M. J., vol. 34, p. 150. 1 column.

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**THE PATIO PROCESS OF AMALGAMATION OF SILVER-ORES.** By Manuel V. Ortega. T. A. I. M. E., vol. 32, p. 276.

**THE MEXICAN OR PATIO PROCESS OF REDUCING SILVER ORES.** By J. Nevin. T. F. I. M. E., vol. 9, p. 159. 12 pages. I.

**THE PATIO PROCESS IN 1905.** By J. W. Malcolmson. E. & M. J., Mar. 23, 1905, p. 564. 2½ columns. I.

**THE PATIO PROCESS IN MEXICO.** By T. A. Rickard. Min. & Sci. Press, vol. 93, p. 599, 4 columns, I.; p. 627, 4 columns.

## **The Effect of Temperature on Amalgamation**

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**TEMPERATURE IN AMALGAMATION.** E. & M. J., vol. 65, pp. 126, 157, 247, 337, 397.

**NOTE ON THE INFLUENCE OF TEMPERATURE IN GOLD AMALGAMATION.** By F. F. Sharpless. E. & M. J., vol. 66, p. 183, ¾ column; and p. 370.

## **Mercury and Amalgam, Their Treatment and Loss.**

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**QUIESCENT MERCURY FOR AMALGAMATION.** Min. & Sci. Press, vol. 51, p. 276. 1 column.

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- SODIUM AMALGAM.** Min. & Sci. Press, vol. 13, p. 194, 2 columns; p. 242,  $\frac{3}{4}$  column; p. 370, 3 columns; and p. 402, 2 columns.
- CLEANING OF AN IRON-AMALGAM.** Min. & Sci. Press, vol. 25, p. 305. 1 column.
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- LOSS OF QUICKSILVER.** Min. & Sci. Press, vol. 27, p. 161.  $\frac{3}{4}$  column. I.
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- THE TREATMENT OF AMALGAM IN THE TRANSVAAL.** E. & M. J., vol. 66, p. 578.  $\frac{3}{4}$  column.

### Amalgam Retorts and Other Apparatus

- A LABORATORY AMALGAMATING DEVICE.** By H. H. Guess. Min. & Sci. Press, vol. 83, p. 130.  $1\frac{1}{2}$  columns. I.
- RETORTING GOLD AMALGAM.** Min. & Sci. Press, vol. 53, p. 361.  $\frac{1}{2}$  column. I.
- AMALGAM STRAINERS.** Min. & Sci. Press, vol. 61, p. 49. 2 columns. I.
- QUICKSILVER CONDENSER AND FLUES.** Min. & Sci. Press, vol. 59, p. 89, 3 columns, I.; p. 109, 2 columns, I.
- COARSE ORE QUICKSILVER FURNACE.** Min. & Sci. Press, vol. 62, p. 233. 1 column. I.
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**Electrostatic Separation**

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**Magnetic Separation**

**THE MAGNETIC PROPERTIES OF IRON AND STEEL AT LIQUID AIR TEMPERATURES.** By C. C. Trowbridge. Sci. Mines Quart., vol. 24, p. 72. 12 columns. 1.

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- AN EXPERIMENTAL DETERMINATION OF AIR-GAP RELUCTANCE.** By C. H. Smoot. J. W. Soc. E., vol. 10, p. 500. 12 pages. I.
- THE MAGNETIC SEPARATING MACHINE AT PRIBRAM.** E. & M. J., vol. 32, p. 237. 1 column. I.
- THE CHASE MAGNETIC ORE-SEPARATOR.** By H. S. Chase. T. A. I. M. E., vol. 21, p. 503.
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- TYPES OF SUCCESSFUL MAGNETIC CONCENTRATORS.** J. C. M. I., vol. 6, p. 20.
- THE WENSTRÖM MAGNETIC SEPARATOR.** By R. A. Cook. T. A. I. M. E., vol. 17, p. 599.
- A NEW MAGNETIC SEPARATOR.** E. & M. J., vol. 67, p. 503. ¾ column. I.
- THE BALL-NORTON ELECTRO-MAGNETIC SEPARATOR.** By C. M. Ball. T. A. I. M. E., vol. 19, p. 187.
- THE WETHERILL MAGNETIC SEPARATOR.** T. A. I. M. E., vol. 26, pp. 357, 358, 359.
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- MAGNETIC CONCENTRATION OF ZINC ORE IN VIRGINIA.** E. & M. J., vol. 77, p. 1001. 8 columns. I.
- THE ODLING MAGNETIC SEPARATOR.** E. & M. J., vol. 78, p. 904. 1½ columns. I.
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- THE WETHERILL TYPE "F" (ROWAND) SEPARATOR.** E. & M. J., vol. 81, p. 1084. I.
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- MAGNETIC SEPARATORS: Gröndal, Wenström-Cobber, Fröding, Knut Eriksson, Forsgren, and Gröndal-Cobber.** E. & M. J., vol. 83, pp. 890, 895. I.
- THE FERRARIS MAGNETIC SEPARATOR.** E. & M. J., vol. 82, p. 1129. 1½ columns. I.

- MAGNETIC CONCENTRATION AT TILLY FOSTER.** By F. H. McDowell. T. A. I. M. E., vol. 21, p. 519.
- PRACTICAL RESULTS IN THE MAGNETIC CONCENTRATION OF IRON-ORE.** By W. H. Hoffman. T. A. I. M. E., vol. 20, p. 602.
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- NOTE ON THE MAGNETIC SEPARATION OF IRON-ORE AT THE SANFORD ORE-BED, MARIAH, ESSEX COUNTY, N. Y., IN 1852.** By W. P. Blake. T. A. I. M. E., vol. 21, p. 378.
- MAGNETIC SEPARATION IN SWEDEN.** E. & M. J., vol. 64, p. 696.
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- THE WETHERILL SYSTEM OF MAGNETIC CONCENTRATION.** E. & M. J., vol. 61, p. 564. 2 columns. I.
- NORTH CAROLINA IRON ORES AND MAGNETIC CONCENTRATION.** By W. B. Phillips. E. & M. J., vol. 57, p. 490. 1½ columns.
- RECENT PRACTICE IN MAGNETIC SEPARATION IN SWEDEN.** By H. C. McNeill. E. & M. J., vol. 68, pp. 608, 4 columns; and p. 640, I.
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- MAGNETIC ORE SEPARATION AT EDISON, N. J.** Engineering, London. vol. 64, p. 579. 10 columns. I.
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- NOTES ON THE MAGNETIC SEPARATION OF ZINC-IRON SULPHIDES: With Observations on Preparatory Wet Concentration.** By Guy H. Elmore. Mining Reporter, Denver, Dec. 18, 1903.

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- CALCINING PYRITE AND BLENDE-SIDERITE ORE FOR MAGNETIC CONCENTRATION.** E. & M. J., vol. 84, p. 318.
- Concentrators, Tables, Buddles, etc.**
- THE "FIVE" CONCENTRATOR.** Min. & Sci. Press, vol. 49, p. 37.  $2\frac{1}{2}$  columns. I.
- THE TRIUMPH ORE CONCENTRATOR.** Min. & Sci. Press, vol. 49, p. 97. 1 column. I.

- THE DUNCAN ORE CONCENTRATOR.** Min. & Sci. Press, vol. 49, p. 113.  $3\frac{1}{2}$  columns. I.
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- THE UNION ORE CONCENTRATOR: With Sulphuret Discharge Roller.** E. & M. J., vol. 62, p. 29. 1 column. I.
- THE MCGLEN CONCENTRATOR.** Min. & Sci. Press, vol. 67, p. 35. 1 column. I.
- THE BLASDEL CONCENTRATOR BELT.** Min. & Sci. Press, vol. 67, p. 33.  $\frac{1}{2}$  column. I.
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- THE GARNIER ORE CONCENTRATOR.** Min. & Sci. Press, vol. 62, p. 33. 1 column. I.
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- CENTRIFUGAL GOLD EXTRACTING PROCESS.** Min. & Sci. Press, vol. 63, p. 245. 4 columns. I.
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- THE COLEMAN SULPHURET SAVER.** Min. & Sci. Press, vol. 26, p. 339.  $\frac{1}{2}$  column. I.
- PEER AND LUNDQUIST'S CONCENTRATOR.** Min. & Sci. Press, vol. 27, p. 273.  $1\frac{1}{2}$  columns. I.
- THE DODGE ORE CONCENTRATOR.** Min. & Sci. Press, vol. 41, p. 397. 3 columns. I.
- THE NATIONAL CONCENTRATOR (Bumping).** Min. & Sci. Press, vol. 43, p. 13. 1 column. I.
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- METCALF'S ORE CONCENTRATOR.** Min. & Sci. Press, vol. 45, p. 177.  $\frac{1}{2}$  column. I.
- THE DUNCAN CONCENTRATOR.** Min. & Sci. Press, vol. 45, p. 209.  $\frac{1}{2}$  column. I.
- SOME MODERN FORMS OF MILLING MACHINERY.** By F. T. Snyder. T. F. C. M. I., vol. 3, p. 65. 8 pages. I.
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- THE HUSEMAN CONCENTRATOR.** E. & M. J., vol. 56, p. 35.  $\frac{1}{2}$  column.
- THE TIERRA SECA GOLD SEPARATOR.** E. & M. J., vol. 57, p. 341.  $1\frac{1}{2}$  columns. I.
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- THE BUSS SWINGING TABLE.** T. I. M. & M., vol. 15, p. 12. 4 pages. I.



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For additional information on CENTRIFUGAL CONCENTRATION, see CONCENTRATORS, etc.

### Washing Coal and Mineral

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### Hand Tests on Mineral

**TESTING ORES BY VANNING.** By R. Pearce. E. & M. J., vol. 76, p. 961. 4½ columns.

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- COPPER-SLIME TREATMENT. By F. G. Coggin. T. A. I. M. E., vol. 12, p. 64.
- SLIMES TREATMENT IN MONTANA. By M. W. Alderson. E. & M. J., vol. 66, p. 757. 2 columns. I.
- TREATMENT OF SLIMES IN TANKS WITH CONICAL BOTTOMS. E. & M. J., vol. 75, p. 482. 2 columns. I.
- SLIME TREATMENT IN THE GALENA-JOPLIN LEAD AND ZINC DISTRICT: Sludge Mills and the Methods Employed in Them. By W. R. Crane. M. & M., May, 1901, p. 465. 2½ columns. I.
- TREATMENT OF SLIMES. E. & M. J., vol. 75, p. 440. ½ column.
- "SLUDGE": Discussion. Engineering, London, vol. 69, p. 34. ½ column.
- WHAT CONSTITUTES SLIMES? By W. J. Sharwood. Engineering, vol. 76, p. 538, 2 columns; and p. 650, ½ column.

- STIRRING OR MIXING OF LIQUID PULP.** By M. P. Bass. E. & M. J., vol. 78, p. 1035.  $2\frac{1}{2}$  columns. I.
- HICKS' TWO-DECKER REVOLVING-FRAME FOR DRESSING SLIMES.** E. & M. J., vol. 55, p. 295. I.
- THE GEYER SLIME CONCENTRATOR.** E. & M. J., vol. 37, p. 236.  $\frac{1}{2}$  column. I.
- SLIMES AND THEIR TREATMENT.** Min. & Sci. Press, vol. 34, p. 105,  $\frac{3}{4}$  column; p. 124,  $\frac{3}{4}$  column; p. 141,  $\frac{1}{2}$  column; p. 145,  $1\frac{1}{2}$  columns, I.; and p. 161, 1 column, I.
- SAVING SLIMES, LEAD-SILVER.** By W. C. Clark. M. & M., vol. 21, p. 343.  $2\frac{1}{2}$  columns.
- SAVING FLOUR GOLD.** Min. & Sci. Press, vol. 38, p. 235.  $\frac{1}{2}$  column.
- FINE GOLD.** Min. & Sci. Press, vol. 38, p. 302.  $\frac{3}{4}$  column.
- THE COLEMAN SLUICE: A Machine for Saving Fine Gold.** Min. & Sci. Press, vol. 38, p. 305.  $1\frac{1}{2}$  columns.
- QUANTITATIVE DETERMINATION OF "SLIMES" IN WATER.** Min. & Sci. Press, vol. 37, p. 49.  $1\frac{1}{2}$  columns.
- CATCHING FLOAT GOLD IN STREAMS: "Fly-Catching."** Min. & Sci. Press, vol. 46, p. 312.  $\frac{1}{2}$  column.
- SAVING FLOAT GOLD.** Min. & Sci. Press, vol. 42, p. 217.  $\frac{3}{4}$  column.
- SWINGING PLATES FOR FLOAT GOLD.** Min. & Sci. Press, vol. 42, p. 237.  $\frac{1}{2}$  column. I.
- WORKING SLIMES AND TAILINGS.** Min. & Sci. Press, vol. 44, p. 144. 1 column.
- SLIME TREATMENT IN THE JOPLIN REGION.** By W. R. Crane. E. & M. J., vol. 77, p. 683. 7 columns.
- THE SLIME PROBLEM.** By T. L. Carter. E. & M. J., vol. 77, p. 435.  $7\frac{1}{2}$  columns. I.
- THE LEAD-ZINC MINES OF KANSAS AND MISSOURI.** M. & M., Dec., 1904, p. 210.
- SAVING SLIMES (by Classifiers).** Min. & Sci. Press, vol. 54, p. 249. 2 columns.
- DEFINITION OF SLIMES.** E. & M. J., vol. 81, p. 380. Note.
- SAND AND SEDIMENT TRAP (for Use in Canals which Tend to Fill Up).** Min. & Sci. Press, vol. 73, p. 175. 2 columns. I.
- THE HOMESTAKE SLIME PLANT.** By Mark Ehle. M. & M., vol. 27, p. 358.  $8\frac{1}{2}$  columns. I.
- MODERN SLIME PLANT, CONFIDENCE MINE, TUOLUMNE COUNTY, CALIFORNIA.** Min. & Sci. Press, vol. 86, p. 215. 3 columns. I.
- TREATMENT OF SLIMES.** Min. & Sci. Press, vol. 76, p. 391,  $2\frac{1}{2}$  columns; p. 416, 2 columns; p. 441,  $1\frac{1}{2}$  columns; p. 465,  $1\frac{1}{2}$  columns; and p. 490,  $1\frac{1}{2}$  columns.
- METHODS OF SAVING FLOUR GOLD.** By D. H. Stovall. Min. & Sci. Press, vol. 89, p. 377. 1 column. I.
- SLIME SEPARATOR, SUNSHINE, UTAH.** Min. & Sci. Press, vol. 85, p. 17.  $1\frac{1}{2}$  columns. I.
- NOTES ON A PROCESS FOR TREATMENT OF SLIMES WITHOUT FILTRATION OR DECANTATION.** By A. James. T. I. M. & M., vol. 7, p. 63.  $12\frac{1}{2}$  pages.
- WHAT IS SLIME?** By M. P. Boss. Min. & Sci. Press, vol. 93, p. 473.  $\frac{1}{2}$  column.
- TREATMENT OF SLIMES.** Min. & Sci. Press, vol. 94, p. 177. 3 columns.
- SLIME TREATMENT IN 1906.** E. & M. J., vol. 83, p. 19.  $1\frac{1}{2}$  columns.
- THE TRAVENER PROCESS FOR GOLD SLIMES.** By L. A. E. Swinney. E. & M. J., vol. 83, p. 608.  $6\frac{1}{2}$  columns. I.
- THE A. AND E. SLIME CONCENTRATOR.** E. & M. J., vol. 83, p. 713. 2 columns. I.
- SLIME TREATMENT AT EL ORO, MEXICO.** T. A. I. M. E., vol. 37, p. 24. 12 pages.
- VALUES IN GOLD SLUDGE DUST.** E. & M. J., vol. 84, p. 443.  $\frac{1}{2}$  column.
- SLIME-DRESSING MACHINERY IN THE COPPER MINES OF SOUTH AUSTRALIA.** T. I. M. E., vol. 27, p. 479. 3 pages. I.



**THE TREATMENT OF BATTERY SLIMES.** By J. R. Williams. J. C. & M. Soc. S. A., vol. 2, p. 92. 6 pages. I.

**THE ECONOMIC TREATMENT OF SLIMES.** J. C. & M. Soc. S. A., vol. 2, p. 238. 20 pages.

**DEFINITION OF SLIMES.** J. C. & M. Soc. S. A., vol. 2, p. 305. 2 pages.

**DISCREPANCIES IN SLIME TREATMENT.** By W. A. Caldecott. J. C. & M. Soc. S. A., vol. 2, p. 372, 9 pages; p. 414, 3 pages; p. 424, 9 pages; and p. 449, 8½ pages.

**SLIME TREATMENT AT THE BALTIC MILL, LAKE SUPERIOR.** T. I. M. & M., vol. 14, p. 190. 1 page.

**SLIME TREATMENT IN THE JOPLIN REGION.** M. & M., vol. 28, p. 155, 2 columns, I.; and p. 162, 2 columns, I.

### Losses in Milling

**LOSSES OF GOLD IN MILL WATER.** By A. Von Gernet. J. C. & M. Soc. S. A., vol. 2, p. 529, 2½ pages; and p. 602, 2 pages.

**CALCULATION OF TOTAL LOSSES IN MECHANICAL TREATMENT OF ORES IN SAXONY.** Sch. Mines Quart., vol. 15, p. 126. 11 pages.

**LOSSES OF GOLD IN MILL-WATER ON THE WITWATERSRAND.** E. & M. J., vol. 67, p. 441. 1½ columns.

**THE LOSSES IN COPPER DRESSING AT LAKE SUPERIOR.** By H. S. Munroe. T. A. I. M. E., vol. 8, p. 409.

**THE LOSSES IN DRESSING CORNISH TIN ORES.** E. & M. J., vol. 55, p. 295. ½ column. I.

**LOSSES IN VANNING TIN ORES.** By R. Rearce. E. & M. J., vol. 77, p. 116. 2 columns.

**LOSSES IN TREATMENT AT KALGOORLIE.** E. & M. J., vol. 78, p. 633.

**ESTIMATION OF LOSSES IN MILLING.** Min. & Sci. Press, vol. 19, p. 313. ½ column.

**LOSSES IN TREATMENT OF ALMADEN ORES.** Min. & Sci. Press, vol. 37, p. 408. 1 column.

**LOSS OF GOLD IN MILLING.** Min. & Sci. Press, vol. 37, p. 162, note; and vol. 38, p. 66, 1 column.

**SAVING OF GOLD (LOSSES).** Min. & Sci. Press, vol. 48, p. 34. 1½ columns.

**LOSSES IN DRESSING TIN ORES.** Min. & Sci. Press, vol. 66, p. 244. ½ column.

**LOSS OF GOLD IN MILLING ORES.** Min. & Sci. Press, vol. 68, p. 308, 1½ columns; p. 340, ½ column; and p. 356, ½ column.

**LOSS OF GOLD IN MILLING.** Min. & Sci. Press, vol. 62, p. 354. ½ column.

**LOSS OF GOLD.** Min. & Sci. Press, vol. 62, p. 226, 1½ columns; and p. 258, 1 column.

**LOSSES IN TREATMENT OF TELLURIDE ORES.** By A. Montgomery. Min. & Sci. Press, vol. 90, p. 205. 2½ columns.

**A RICH OLD MILL SITE: Waste from Mill.** Min. & Sci. Press, vol. 34, p. 262. ½ column.

**NEGLECTED SOURCE OF GOLD PRODUCTION: Concentrating Action of Rivers on Tailings and Slimes.** Min. & Sci. Press, vol. 36, p. 184. 1½ columns.

**LOSS OF GOLD IN CALIFORNIA GOLD MILLS.** Min. & Sci. Press, vol. 25, p. 242. 2 columns.

**CAUSES OF GOLD MILL LOSSES.** Min. & Sci. Press, vol. 87, p. 368. 2½ columns.

**LOSSES IN EXTRACTION OF GOLD BY AMALGAMATION.** Min. & Sci. Press, vol. 54, p. 154. 2½ columns.

**LOSSES IN AMALGAMATION AT THE COMSTOCK LODGE.** Min. & Sci. Press, vol. 62, p. 163. Table.

**LOSSES IN CONCENTRATION.** Min. & Sci. Press, vol. 93, p. 743. ½ column.

**LOSSES IN GOLD MILLING IN VARIOUS COUNTRIES.** Min. & Sci. Press, vol. 25, p. 242.

**SAVING FLOAT GOLD.** Min. & Sci. Press, vol. 64, p. 322. 1 column.

### Dry Concentration

- THE DRY SEPARATION OF GOLD AND COPPER.** By F. R. Carpenter. E. & M. J., vol. 63, p. 193. 1½ columns.
- DRY CONCENTRATION IN NORTH WALES.** E. & M. J., vol. 60, p. 55. 1½ columns.
- DRY CONCENTRATION AT FRISCO, UTAH.** By H. V. F. Furman. Sch. Mines Quart., vol. 3, p. 127. 6 pages.
- THE DRY CONCENTRATION OF ORES.** By J. S. Newberry. Sch. Mines Quart., vol. 4, p. 1. 5 pages.
- DRY BLOWING OF GOLD IN KALGOORLIE, AUSTRALIA.** T. A. I. M. E., vol. 28, pp. 95, 510, 511, 512-518.
- DRY BLOWING, AS CARRIED OUT ON THE VARIOUS GOLDFIELDS OF WESTERN AUSTRALIA.** By J. A. Mactear. T. I. M. & M., vol. 3, pp. 331 and 332.
- HAND-PICKING OR DRY DRESSING.** Sch. Mines Quart., vol. 21, p. 137. 7 pages.
- A DRY PROCESS FOR THE TREATMENT OF COMPLEX SULPHIDE ORES.** By H. Livingstone Sulman. T. I. M. & M., vol. 10, p. 430. 28 pages.
- THE "CROWN" DRY CONCENTRATING SYSTEM.** E. & M. J., vol. 71, p. 694. 1½ columns. I.
- WOOD'S DRY PLACER MINER.** E. & M. J., vol. 61, p. 276. 1 column. I.
- DRY BLOWERS IN AUSTRALIAN GOLD PLACERS.** E. & M. J., vol. 74, p. 482. 6 columns. I.
- THE EDISON DRY PROCESS FOR THE SEPARATION OF GOLD FROM GRAVEL.** By C. M. Chapman. E. & M. J., vol. 75, p. 713. 2½ columns. I.
- THE PROBLEM OF THE DRY-PLACERS.** By H. A. Mather. E. & M. J., vol. 76, p. 314. 2½ columns. I.
- THE FREID GRAVITY DRY-PROCESS SEPARATOR.** By D. McLean. E. & M. J., vol. 76, p. 970. 2 columns. I.
- DRY CONCENTRATION OF ANTIMONY ORES.** By J. Heard, Jr. E. & M. J., vol. 47, p. 187. 2 columns.
- DRY ORE CONCENTRATION.** By J. Heard. E. & M. J., vol. 42, p. 7. 3½ columns.
- WET vs. DRY CONCENTRATION.** E. & M. J., vol. 77, p. 924. ¼ column.
- DRY ORE CONCENTRATION AT THE MANHATTAN SILVER MILL, NEVADA.** By A. Trippel. E. & M. J., vol. 24, p. 65. 2 columns.
- ORE CONCENTRATION WITHOUT WATER:** Krom's Pneumatic Jig. E. & M. J., vol. 6, p. 225. 2½ columns.
- SYSTEMATIC PREPARATION OF MINERALIZED ORES BY DRY CRUSHING AND CONCENTRATION.** E. & M. J., vol. 13, p. 89, 2 columns; p. 106, 2 columns; p. 122, 2 columns; p. 129, 1½ columns; p. 156, 1½ columns; and p. 161, 3 columns.
- VINCENT'S DRY ORE CONCENTRATOR.** Min. & Sci. Press, vol. 30, p. 313. 1½ columns. I.
- KROM'S DRY CONCENTRATORS OR AIR JIGS: A Challenge.** E. & M. J., vol. 42, p. 111, 1½ columns; p. 165, 1½ columns; p. 182, 1 column.
- DRY CONCENTRATION: Krom Jig.** Min. & Sci. Press, vol. 31, p. 249. 2½ columns.
- AIR JIGS.** E. & M. J., vol. 42, p. 237. 1½ columns.
- DRY GOLD SEPARATING MACHINE.** Min. & Sci. Press, vol. 34, p. 70. ¼ column. I.
- SAND AND GRAVEL SEPARATOR: Wet or Dry.** Min. & Sci. Press, vol. 33, p. 281. 1 column.
- WORKING DRY PLACERS: Dry Concentrator.** Min. & Sci. Press, vol. 35, p. 24. ¼ column.
- THE PRINZ IMPROVED DUST COLLECTOR.** E. & M. J., vol. 40, p. 306. ¼ column.
- CONCENTRATION OF ORES BY MEANS OF AIR.** E. & M. J., vol. 13, p. 169. ¼ column.
- DRY CONCENTRATION.** E. & M. J., vol. 13, p. 180. 1½ columns.

**KROM'S DRY ORE CONCENTRATOR.**  
Min. & Sci. Press, vol. 27, p. 257.  
3 columns. I.

**DRY CONCENTRATION: Hunter's Grain Separator.** Min. & Sci. Press, vol. 17, p. 273. 1½ columns. I.

**BRODIE'S PATENT WIND BLAST SEPARATOR FOR DRY CRUSHING: Air Stamp.** Min. & Sci. Press, vol. 13, p. 177. 1½ columns. I.

**ANOTHER DRY PLACER MACHINE.**  
Min. & Sci. Press, vol. 35, p. 168,  
½ column; and p. 312.

**WORKING DRY PLACERS.** Min. & Sci. Press, vol. 35, p. 248. 1 column.

**DUEM AND BENNETT'S DRY PLACER AMALGAMATOR.** Min. & Sci. Press, vol. 35, p. 800. 1 column.

**WILHELM'S DRY PLACER AMALGAMATOR.** Min. & Sci. Press, vol. 35, p. 322. ½ column.

**WAUGAMAN'S DRY GOLD WASHER.**  
Min. & Sci. Press, vol. 41, p. 13.  
½ column. I.

**THE HARRIS DRY GOLD SEPARATOR.**  
Min. & Sci. Press, vol. 43, p. 373.  
½ column.

**BOURNE'S DRY GOLD SEPARATOR.**  
Min. & Sci. Press, vol. 44, p. 225.  
½ column. I.

**THE WOODS DRY PLACER MINER.**  
Min. & Sci. Press, vol. 72, p. 107.  
1 column. I.

**A DRY PLACER MACHINE.** Min. & Sci. Press, vol. 72, p. 201. 1 column. I.

**FREEMAN'S DRY-GOLD SEPARATOR.**  
Min. & Sci. Press, vol. 58, p. 145,  
2 columns; p. 149, ½ column.

**THE TIERRA SECA GOLD-EXTRACTING MACHINE.** Min. & Sci. Press, vol. 62, p. 357. 2 columns. I.

**THE CROWN DRY ORE SIZER AND CONCENTRATOR.** Min. & Sci. Press, vol. 81, p. 156. 2½ columns. I.

**FRED GRAVITY DRY PROCESS SEPARATOR.** Min. & Sci. Press, vol. 87, p. 403. 1½ columns. I.

### Practice in Milling Ores.

**SILVER MINING AND MILLING AT BUTTE, MONT.** By W. P. Blake. T. A. I. M. E., vol. 16, p. 38.

**GOLD PRINCE MINE AND MILL, ANIMAS FORKS, COLO.** M. & M., vol. 27, p. 341. 7 columns. I.

**NOTES ON GOLD MILLING IN CALIFORNIA.** Min. & Sci. Press, vol. 71, p. 320, 1½ columns; p. 336, 3 columns; p. 356, 2 columns; p. 372, 2 columns; p. 389, 1 column; p. 404, 3 columns; p. 424, 2½ columns; vol. 72, p. 4, 3 columns; p. 24, 7 columns; p. 46, 1½ columns; p. 64, 3 columns; p. 108, 1½ columns; p. 125, 3 columns; p. 144, 2½ columns; p. 165, 4½ columns; p. 206, 1 column.

**MILLING ARIZONA GOLD-ORES WITH A COLORADO STAMP-MILL.** By W. S. Morse. T. A. I. M. E., vol. 25, p. 130.

**GOLD-MILLING IN THE BLACK HILLS.** By H. O. Hofman. T. A. I. M. E., vol. 17, p. 498.

**MILLING AT THE ALASKA-TREADWELL.** By R. A. Kinzie. E. & M. J., vol. 76, p. 544. 10½ columns. I.

**GOLD-MILLING IN THE BLACK HILLS, SOUTH DAKOTA, AND AT GRASS VALLEY, CAL.** By T. A. Rickard. T. A. I. M. E., vol. 25, p. 906.

**MILLING IN GILPIN COUNTY, COLO.** Min. & Sci. Press, vol. 91, p. 344. 3 columns. I.

**CONCENTRATION OF ORES IN COLORADO.** Min. & Sci. Press, vol. 21, p. 138. Table.

**CONCENTRATION OF GOLD AND SILVER ORES ON THE PACIFIC COAST.** By J. M. Adams. Sch. Mines Quart., vol. 8, p. 336. 24 pages. I.

**MILL-PRACTICE OF THE UTICA MILLS, CALAVERAS COUNTY, CAL.** By W. J. Loring. T. A. I. M. E., vol. 28, p. 553.

**NOTES ON THE STAMP-MILLS AND CHLORINATION-WORKS OF THE PLYMOUTH CONSOLIDATED GOLD MINING COMPANY, AMADOR COUNTY, CAL.** By G. W. Small. T. A. I. M. E., vol. 15, p. 305.

- GOLD MILLING IN COLORADO.** By John Roger. Engineering, London, vol. 66, p. 3, 7 columns, I.; and p. 221, 6 columns.
- CONCENTRATING MILL FOR SILVER ORES.** E. & M. J., vol. 46, p. 392. 2 columns. I.
- MILLING IN UTAH.** E. & M. J., vol. 77, p. 604. 2 columns.
- SOME OLD GOLD MILLS.** By F. W. Holbrook. Sch. Mines Quart., vol. 8, p. 61. 4 pages. I.
- THE SILVER KING CONCENTRATING MILL, PARK CITY, UTAH.** By J. H. Steele. Min. & Sci. Press, vol. 85, p. 204. 1½ columns. I.
- EARLY QUARTZ MILLING IN GRASS VALLEY, CAL.** By G. F. Deetkin. E. & M. J., vol. 58, p. 390. 1 column.
- SECRET PROCESS FOR WORKING COMSTOCK ORE.** By D. DeQuille. E. & M. J., vol. 53, p. 544. 1½ columns.
- WASHOE (NEVADA) ORES: Reduction Mills and Machinery.** Min. & Sci. Press, vol. 17, p. 308. 1½ columns.
- STAMP MILLING OF FREE GOLD ORES.** By D. Harmon. Min. & Sci. Press, vol. 81, p. 556. 13½ columns.
- TREATMENT OF THE LOW GRADE SILVER ORES AT THE SILVER ISLET MILL.** By F. A. Lowe. E. & M. J., vol. 32, p. 251. 2 columns.
- FORTY-TWO YEARS AGO: Gold Milling in California.** Min. & Sci. Press, vol. 70, p. 360. 2 columns.
- EARLY ATTEMPTS AT WORKING THE SILVER ORE OF THE COMSTOCK.** By D. De Quille. E. & M. J., vol. 54, p. 80, 2 columns; p. 152, 1½ columns.
- MILLING ON THE RAND, SOUTH AFRICA.** Gold Mines of the Rand, p. 180. 32 pages. 1895. I.
- NOTES ON MILLING AT THE NORTH STAR MINE, GRASS VALLEY, CAL.** By P. R. Robert. T. I. M. & M., vol. 5, p. 153.
- GOLD-MILLING AT THE NORTH STAR MINE, GRASS VALLEY, NEVADA COUNTY, CAL.** By E. R. Abadié. T. A. I. M. E., vol. 24, p. 208.
- MILLING: Ore-Dressing on the Rand.** Witwatersrand Goldfields, p. 404. 28 pages. I.
- GOLD MILLING.** By A. Del Mar. Min. & Sci. Press, vol. 89, p. 38, 2½ columns; p. 56, 1½ columns; and p. 70, 1 column.
- MINING AND ORE TREATMENT IN WESTERN AUSTRALIA.** By D. Clark. Min. & Sci. Press, vol. 89, p. 41, 2½ columns; p. 54, 3 columns, I.; p. 71, 2 columns; p. 89, 2½ columns; and p. 103, 2½ columns, I.
- MINE AND MILL WORK AT HEDGES, CAL.** Min. & Sci. Press, vol. 84, p. 50. 1 column.
- CONCENTRATION OF AURIFEROUS SULPHIDES IN CALIFORNIA.** Min. & Sci. Press, vol. 79, p. 340, 2 columns; and p. 379, 1½ columns.
- ORE TREATMENT AT LAURIUM, GREECE.** By H. F. Collins. E. & M. J., Feb. 23, 1905, p. 363. 4 columns.
- TAILINGS TREATMENT IN WESTERN AUSTRALIA.** Gold Mining and Milling, p. 251. 34 pages. I.
- METHOD OF SAVING FINE GOLD OF SNAKE RIVER, IDAHO.** By W. H. Washburn. Min. & Sci. Press, vol. 83, p. 45. 4 columns. I.
- THE PEREGRINA MILL, GUANAJUATO.** By F. J. Hobson. E. & M. J., vol. 81, p. 943. 4 columns.
- MODERN MINING AT ALTA, UTAH.** By L. A. Palmer. M. & M., vol. 26, p. 438. 8 columns. I.
- MILLING GOLD ORE BY THE CONTINUOUS PROCESS.** Min. & Sci. Press, vol. 56, p. 265. 3½ columns. I.
- SOME COLORADO CONCENTRATION METHODS.** Min. & Sci. Press, vol. 74, p. 408. 1½ columns.
- SOME CRIPPLE CREEK PRACTICES.** Min. & Sci. Press, vol. 74, p. 4. 1½ columns.

- WORKING GOLD-BEARING SULPHURETS.** Min. & Sci. Press, vol. 52, p. 325, 2 columns, I.; p. 341, 1 column; p. 357, 2 columns; p. 392, 1½ columns; p. 409, 2 columns; and p. 425, 1 column.
- THE TREATMENT OF AUSTRALIAN ORES.** By J. Plummer. E. & M. J., vol. 60, p. 610. 1 column.
- MODERN PRACTICE IN GOLD MINING.** By J. H. Hammond. Engineering, London, vol. 67, p. 791. 1½ columns.
- NOTES ON GOLD MINING.** By F. Irvine. Engineering, London, vol. 67, p. 792. 2 columns.
- NOTE ON CHEAP GOLD-MILLING IN MEXICO.** By H. F. Collins. T. A. I. M. E., vol. 31, p. 446.
- NOTE ON GOLD-MINING AND MILLING IN KOREA.** By W. I. Pierce. T. A. I. M. E., vol. 18, p. 363.
- MILLS OF THE SAN JUAN REGION, COLORADO:** The Means by which Many of the Great Low Grade Silver Deposits Have Been Made Profitable. By Frank Hartman. M. & M., Jan., 1902, p. 249. 4½ columns. I.
- THE TREATMENT OF FINE GOLD IN THE SANDS OF SNAKE RIVER, IDAHO.** By T. Egleston. T. A. I. M. E., vol. 18, p. 597.
- SAVING GOLD FROM BLACK SAND.** Min. & Sci. Press, vol. 84, p. 347. ½ column.
- A CHINESE SYSTEM OF GOLD-MILLING.** By H. Louis. T. A. I. M. E., vol. 20, p. 324.
- CONCENTRATION AND SMELTING AT TOMBSTONE, ARIZONA.** By J. A. Church. T. A. I. M. E., vol. 15, p. 601.
- SILVER-MILLING IN ARIZONA.** By W. L. Austin. T. A. I. M. E., vol. 11, p. 91.
- THE MINES AND MILLS OF GILPIN COUNTY, COLORADO.** By A. N. Rogers. T. A. I. M. E., vol. 11, p. 29.
- FINE GOLD MINING AND CONCENTRATION.** By N. J. Fleck. E. & M. J., vol. 68, p. 70. 1 column.
- MINING AND MILLING GOLD ORES IN WESTERN AUSTRALIA.** By H. C. Hoover. E. & M. J., vol. 66, p. 725: 3½ columns.
- ORE TREATMENT IN BOULDER COUNTY, COLORADO.** By C. C. Burger. E. & M. J., vol. 65, p. 129. 3 columns. I.
- GOLD MILLING IN CLAY COUNTY, ALABAMA, AT THE IDAHO MINE.** By J. Franklin. E. & M. J., vol. 63, p. 479. ½ column.
- THE CONCENTRATION OF AURIFEROUS SULPHIDES IN CALIFORNIA.** By W. H. Storms. E. & M. J., vol. 60, p. 29, 3½ columns, I.; p. 440, I.; p. 466, I.
- PRIDE OF THE WEST MILL AND SMELTER, WASHINGTON CAMP, ARIZONA.** By J. Scobey. E. & M. J., vol. 72, p. 110. 1½ columns. I.
- NOTES ON THE YMIR MINE AND ITS MILL PRACTICE.** By S. S. Fowler. J. C. M. I., vol. 3, p. 3. 8 pages.
- NOTES ON GOLD MILLING PRACTICE AT THE ATHABASCA MINE, NELSON, B.C.** By E. Nelson. J. C. M. I., vol. 4, p. 83. 8 pages.
- IMPROVEMENTS IN THE DRESSING OF GOLD ORES.** By F. Hill. T. F. C. M. I., vol. 1, p. 21. 13 pages. I.
- MINING AND MILLING IN THE BLACK HILLS, SOUTH DAKOTA.** By C. G. Warnford Lock. T. I. M. & M., vol. 3, p. 151, and p. 234.
- NOTES ON A COMBINATION MILL IN THE UNITED STATES.** By W. McDermott. T. I. M. & M., vol. 6, p. 245.
- MINING AND MILLING AT THE MESQUITAL DEL ORO GOLD MINE, STATE OF ZACATECAS, MEXICO.** By A. C. Claudet. T. I. M. & M., vol. 3, pp. 335, 355.
- NOTES ON MILLING IN NORTHERN KOREA.** By S. J. Speak. T. I. M. & M., vol. 12, p. 427. 15 pages.

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- CONCENTRATION AT MOWRY, ARIZONA.** M. & M., vol. 27, p. 530. 1½ columns. I.
- MILLING LEAD-ORE IN THE WISCONSIN-IOWA-ILLINOIS REGION.** E. & M. J., vol. 82, p. 60. 1 column. I.
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## CONCRETE, MORTARS, AND PLASTERS

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## DAMS FOR MINING PURPOSES

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- POPLAR CREEK AND OTHER CAMPS OF THE LARDEAU DISTRICT.** By R. W. Brock. J. C. M. I., vol. 7, p. 87. 27 $\frac{1}{2}$  pages. I.
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- DIAMOND MINING IN THE PROVINCE OF MINAS-GERAES, BRAZIL.** E. & M. J., vol. 36, p. 216, 1½ columns; and p. 233, 1 column.
- BRAZILIAN DIAMONDS AND CARBONS.** E. & M. J., vol. 33, p. 132. ½ column. I.
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- THE DIAMOND DEPOSITS OF SALOBRO, BRAZIL.** By F. de Paula Oliveira. E. & M. J., vol. 72, p. 635. 4 columns.
- CARBONS IN BRAZIL.** M. & M., vol. 19, p. 203. 1 column.
- THE MANGANESE DEPOSITS OF GANDARELLA, MINAS GERAES, BRAZIL.** By J. G. Michaeli. E. & M. J., vol. 72, p. 818. 1½ columns.
- THE ORE DEPOSITS AND MINES OF MINAS GERAES, BRAZIL.** By A. Mezger. E. & M. J., vol. 50, p. 239, 1½ columns; and p. 272, 2 columns.
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- THE MANGANESE-DEPOSITS OF BAHIA AND MINAS, BRAZIL.** By J. C. Branner. T. A. I. M. E., vol. 29, p. 756.
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- ON THE OCCURRENCE OF MICA IN BRAZIL AND ON ITS PREPARATION FOR THE MARKET.** By H. K. Scott. T. I. M. & M., vol. 12, p. 351. 14 pages. I. Map.
- THE MINERALS OF BRAZIL.** By J. Ross. E. & M. J., vol. 59, p. 125. 3 columns.
- THE MINERAL RESOURCES OF THE STATE OF RIO GRANDE DO SUL, BRAZIL.** By H. K. Scott. T. I. M. E., vol. 25, p. 510. 18 pages. I.
- MINING CONDITIONS AND MINERAL RESOURCES IN BRAZIL.** E. & M. J., vol. 72, p. 428. 2 columns. I.
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- THE MINERAL INDUSTRY OF BRAZIL.** By M. A. R. Lisboa. E. & M. J., vol. 83, p. 419. 5½ columns. I.
- BRAZIL AND ITS MINERAL INDUSTRY.** By A. Brandenburg. Min. Mag., vol. 13, p. 560. 14 columns. I.
- PALLADIUM AND PLATINUM IN BRAZIL.** T. I. M. E., vol. 30, p. 607. 1 page.
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- THE TIPUANI GOLD-FIELDS OF BOLIVIA.** By W. C. Agle. E. & M. J., vol. 63, p. 544. 1½ columns.
- THE CRURO SILVER MINES IN BOLIVIA.** By J. Bosadre. E. & M. J., vol. 60, p. 440. 1 column.
- THE POTOSI, BOLIVIA, SILVER DISTRICT.** By A. F. Wendt. T. A. I. M. E., vol. 19, p. 74.
- THE GOLD DEPOSITS OF THE TIPUANI RIVER, BOLIVIA.** By F. G. Corning. E. & M. J., vol. 42, p. 58. 5 columns. I.
- MINERALS FOUND IN THE SILVER LODES OF TATASI AND PORTUGATETE, BOLIVIA.** By M. Roberts. T. I. M. & M., vol. 7, p. 91. 2½ pages.
- CHOROLQUE TIN MINES AND ALLUVIAL DEPOSITS, BOLIVIA.** By M. Roberts. T. I. M. & M., vol. 9, p. 372. 3½ pages.
- NOTES ON CHOROLQUE TIN MINE AND ALLUVIAL DEPOSITS, BOLIVIA.** By M. Roberts. T. I. M. & M., vol. 12, p. 404. 2 pages.
- THE TIN DEPOSITS OF BOLIVIA.** Tin Deposits of the World, p. 112. 12 pages. I.

- THE TIN MINES OF BOLIVIA.** By W. McDermott. T. I. M. & M., vol. 7, p. 77. 15 pages.
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- SKETCH OF THE BOLIVIAN REPUBLIC, SOUTH AMERICA.** E. & M. J. vol. 42, p. 220, 4 columns, I.; and p. 238, 4 columns.
- RAILWAY AND MINING DEVELOPMENTS IN BOLIVIA.** E. & M. J., vol. 82, p. 2. 3 columns.
- British Columbia**
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- THE ST. EUGENE MINE, BRITISH COLUMBIA.** By E. Jacobs. E. & M. J., vol. 77, p. 966. 2½ columns.
- WHITE HORSE DISTRICT IN YUKON TERRITORY.** By W. M. Brewer. M. & M., vol. 24, p. 28. 6½ columns. I.
- THE TRAIL CREEK DISTRICT, BRITISH COLUMBIA.** By P. C. Stoess. E. & M. J., vol. 58, p. 319. 1 column. Map.
- WINDY ARM MINERAL LOCATIONS, BRITISH COLUMBIA.** By W. F. Robertson. E. & M. J., vol. 81, p. 701. 6 columns. I.
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- THE LE ROI MINE.** By O. Hall. J. C. M. I., vol. 5, p. 403. 18 pages.
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- NOTES ON THE BRITISH COLUMBIA ZINC PROBLEM.** By A. C. Garde. J. C. M. I., vol. 7, p. 368. 9 pages.

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- BRITISH COLUMBIA.** By R. C. L. Brown. E. & M. J., vol. 9, p. 179. 5½ columns.
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- COPPER MINING AT KAMLOOPS, BRITISH COLUMBIA.** By W. M. Wade. E. & M. J., vol. 66, p. 698. 1 column.
- COPPER MOUNTAIN, BRITISH COLUMBIA.** By J. Catherinet. E. & M. J., Jan. 19, 1905, p. 125. 8 columns. I.
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- THE CROW'S NEST PASS COAL MINE.** By C. V. Corliss. E. & M. J., vol. 71, p. 810. 3½ columns. I.
- NOTES ON THE SPECIAL FEATURES OF COAL MINING IN THE CROW'S NEST, BRITISH COLUMBIA.** By J. McEvoy. J. C. M. I., vol. 7, p. 500. 5 pages.
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- THE CASSIAR COALFIELDS IN BRITISH COLUMBIA.** By J. J. Bell. E. & M. J., vol. 83, p. 1007. 2 columns. I.
- THE COMOK AND QUATSING COAL-FIELDS, VANCOUVER ISLAND, BRITISH COLUMBIA.** By W. M. Brewer. E. & M. J., vol. 74, p. 180. 4 columns.
- THE COOS BAY COAL-FIELDS.** By C. Rockwell. E. & M. J., vol. 73, p. 238, 7½ columns, I.; and p. 270, 6 columns, I.
- THE CROW'S NEST PASS COAL-FIELDS.** By W. M. Brewer. E. & M. J., vol. 73, p. 549, 8 columns, I.; and p. 757, 2½ columns.
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- THE COAL CREEK COLLIERY OF THE CROW'S NEST PASS COAL COMPANY.** By C. V. Corliss. J. C. M. I., vol. 4, p. 155. 19 pages. I.
- PIONEER WORK IN THE CROW'S NEST COAL AREAS.** By Wm. Blakemore. J. C. M. I., vol. 4, p. 230. 14 pages. I.
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- CORNBAR-BEARING ROCKS OF BRITISH COLUMBIA.** By G. F. Monckton. T. I. M. E., vol. 27, p. 463. 8 pages. I.
- PLATINUM ON THE FRASER RIVER.** E. & M. J., vol. 83, p. 1060.  $\frac{1}{2}$  column.
- PLATINUM IN BRITISH COLUMBIA.** By R. W. Brock. E. & M. J., vol. 77, p. 280.  $2\frac{1}{2}$  columns.
- NOTES ON SOME OF THE MINING DISTRICTS OF BRITISH COLUMBIA.** By W. H. Merritt. E. & M. J., vol. 63, p. 67.  $1\frac{1}{2}$  columns.
- MINERAL DEPOSITS OF THE COAST REGION OF BRITISH COLUMBIA.** By G. F. Monckton. E. & M. J., vol. 64, p. 40. 1 column.
- THE MINERAL RESOURCES OF BRITISH COLUMBIA.** By W. M. Brewer. E. & M. J., vol. 66, p. 638; vol. 65, pp. 579, 609, 640, 699, 731.
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- MINING INDUSTRY OF BRITISH COLUMBIA.** By W. M. Brewer. E. & M. J., vol. 67, p. 176,  $1\frac{1}{2}$  columns; p. 529, 2 columns; vol. 66, p. 9, 1 column; p. 40, 2 columns; p. 62, 1 column; p. 185,  $1\frac{1}{2}$  columns; p. 281, 1 column; p. 515,  $1\frac{1}{2}$  columns; p. 550, 1 column.
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- TEXADA ISLAND, BRITISH COLUMBIA.** By A. Raper. M. & M., vol. 19, p. 447.  $2\frac{1}{2}$  columns.
- MINING IN BRITISH COLUMBIA.** By W. M. Brewer. T. I. M. E., vol. 15, p. 455. 6 pages.
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See CANADA for other information relating to this area.

### California

**SMALL VEINS, ALSO VALUABLE, CALIFORNIA.** Min. & Sci. Press, vol. 88, p. 178.  $\frac{1}{2}$  column.

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- GOLD IN SHALES IN UPPER SARAWAK.** T. I. M. & M., vol. 15, p. 72. 3 pages. I.
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- THE ALLUVIAL TIN-DEPOSITS OF GIAK, SUMATRA.** By C. M. Rolker. T. A. I. M. E., vol. 20, p. 50.
- THE TERAK TIN MINES (MALAY PENINSULA).** E. & M. J., vol. 56, p. 268. 2½ columns. I.
- THE STRAITS TIN MINES.** E. & M. J., vol. 80, p. 831. 1½ columns.
- TIN MINES IN THE MALAY PENINSULA.** E. & M. J., vol. 55, p. 514. Note.
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## Florida

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**NOTES FROM THE FLORIDA PHOSPHATE FIELDS.** E. & M. J., vol. 52, p. 592, 1 column; p. 612, 2 columns; p. 642, 2 columns; p. 674, 1 column; p. 697, ¾ column.

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- PROANO, A FAMOUS MINE OF FRESNILLO, MEXICO.** By J. A. Church. E. & M. J., vol. 84, p. 53. 9½ columns. I.
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- "LOS REYES" GOLD MINES, SOUTHERN MEXICO.** By A. H. Smith. J. C. M. I., vol. 8, p. 272. 12 pages. I.
- THE SIERRA MOJADA, COAHUILA, MEXICO, AND ITS ORE-DEPOSITS.** By J. W. Malcolmson. T. A. I. M. E., vol. 32, p. 100.
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- NOTES ON THE STRUCTURE OF ORE-BEARING VEINS IN MEXICO.** By E. Halse. T. A. I. M. E., vol. 32, p. 285.
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**THE YAQUI RIVER COUNTRY OF SONORA, MEXICO.** By G. J. Bancroft. E. & M. J., vol. 76, p. 160. 5½ columns. I.

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**NOTES ON THE MICHIPICOTEN GOLD FIELD.** By A. B. Willmott. T. F. C. M. I., vol. 3, p. 100. 2 pages.

**THE GOLD BEARING SANDS OF THE VERMILION RIVER.** By J. W. Evans. J. C. M. I., vol. 2, p. 105. 3 pages.

**THE DEAD RIVER GOLD RANGE, MICHIGAN.** E. & M. J., vol. 52, p. 119. ¼ column.

**THE NEW MICHIGAN GOLD FINDS.** E. & M. J., vol. 46, p. 238. 2½ columns. I.

**THE GREAT GOLD FIND IN MICHIGAN.** E. & M. J., vol. 44, p. 40. 1 column.

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- THE DEU PRU LODGE, WASHINGTON.** By H. Landes. E. & M. J., vol. 65, p. 39. 3½ columns. I.
- GOLD VEINS OF SILVER MOUNTAIN, OPHIR, SAN MIGUEL COUNTY, COLORADO.** E. & M. J., vol. 38, p. 330. ½ column.
- LAKE CHELAN DISTRICT: An Account of an Undeveloped Mining District in the State of Washington.** By A. Lakes. M. & M., vol. 20, p. 268. 4 columns. I.
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- THE MOUNT BAKER MINING DISTRICT, WASHINGTON.** By G. O. Smith. E. & M. J., vol. 73, p. 379. 3½ columns. I.
- THE INDEPENDENT MINE AT SILVERTON, SNOKOMISH COUNTY, WASHINGTON.** By R. H. Stretch. E. & M. J., vol. 73, p. 832. 2 columns. I.
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- THE REPUBLIC MINE, WASHINGTON.** By M. H. Joseph. E. & M. J., vol. 66, p. 545. 2½ columns. I.
- THE REPUBLIC MINING CAMP, WASHINGTON.** By M. H. Joseph. E. & M. J., vol. 68, p. 635. 3½ columns. I.
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- GOLD MINING IN SANTO DOMINGO.** By F. L. Garrison. E. & M. J., vol. 84, p. 490. 8 columns. I.
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## MINE DRAINAGE

### Drainage in General

- CO-OPERATIVE PUMPING IN ENGLISH COAL MINES.** E. & M. J., vol. 75, p. 479. Note.
- CO-OPERATIVE MINE DRAINAGE.** E. & M. J., vol. 50, p. 591. ½ column.
- MINE DRAINAGE DISTRICTS: Proposed Legislation for the Formation of Drainage Districts for Jointly Unwatering a Number of Mines.** By D. W. Brunton. M. & M., vol. 27, p. 219. 1½ columns.
- AN IMPORTANT MINE-DRAINAGE PLAN.** E. & M. J., vol. 82, p. 1082. 1 column.
- PROPOSED LAW FOR THE CREATION OF MINE DRAINAGE DISTRICTS.** E. & M. J., vol. 83, p. 181. ¾ column.
- THE ASSESSMENT OF DRAINAGE DISTRICTS.** By L. E. Ashbaugh. J. W. Soc. E., vol. 11, p. 433. 20½ pages. I.
- MINE DRAINAGE GENERALLY CONSIDERED.** P. C. M., vol. 3, p. 171. 10 pages. I.

- THE DRAINAGE OF FLOODED MINES.** By B. Halbestadt. Coll. Engr. & Met. Miner, vol. 16, p. 56. 1 column. I.
- WATER SUPPLY: Reservoirs, Dams, and Measurement of Water.** Placer Mining, Chap. 11, p. 73.
- NOTES UPON THE DRAINAGE OF A FLOODED ORE-PIT.** By J. Birkinbine. T. A. I. M. E., vol. 6, p. 174.
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- PREVENTING INFILTRATION OF WATER IN MINES.** E. & M. J., vol. 67, p. 12, note, p. 526.
- WATER FREAKS IN MINES.** Min. & Sci. Press, vol. 35, p. 262.  $\frac{1}{2}$  column.
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- SINKING A SUCTION WELL.** Eng.-Cont., vol. 27, p. 117.  $\frac{1}{2}$  column.
- METHOD OF DRAWING OFF WATER THROUGH BARRIER PILLAR IN PENNSYLVANIA MINES.** Rept. Insp. Mines, Pa., 1877, p. 200. 2 pages. I.
- QUANTITY OF WATER IN MINES: Great Item of Expense.** Min. & Sci. Press, vol. 40, p. 1.  $\frac{1}{2}$  column.
- AT WHAT DEPTH DO WET MINES BECOME DRY?** Min. & Sci. Press, vol. 86, p. 33. 1 column +.
- HOW A MINE MAY BE DRY BUT NOT DUSTY.** By G. Fowler. T. F. I. M. E., vol. 11, p. 128. 14 pages. I.
- DRAINING ADJOINING MINES BY MEANS OF DIAMOND DRILL HOLES.** E. & M. J., vol. 83, p. 676. 2 columns. I.
- TAPPING WATER IN MINES.** E. & M. J., vol. 82, p. 837.  $1\frac{1}{2}$  columns. I.
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- UNWATERING AND FITTING A LANARKSHIRE COLLIERY WITH MODERN APPLIANCES.** By R. Broom. T. I. M. E., vol. 22, p. 159. 7 pages. I.
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- A NEW CALIFORNIA PIPE LINE.** E. & M. J., vol. 78, p. 712.  $2\frac{1}{2}$  columns. I.
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See COMPRESSED AIR PUMPING for further information on PUMPING AND DRAINAGE.

## DRILLING AND BORING

### Hand Drills

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### Electric Drills

- THE MEISSNER ELECTRIC ROCK DRILL. E. & M. J., vol. 66, p. 759. 1 column. I.
- AN ENGLISH ELECTRIC DRILL APPARATUS. E. & M. J., vol. 64, p. 249.  $\frac{1}{2}$  column. I.
- THE BLADRAY ELECTRIC DRILL. E. & M. J., vol. 64, p. 575.  $1\frac{1}{2}$  columns. I.
- ELECTRIC TRANSMISSION AND ELECTRIC DRILLS FOR MINES. By F. Hille. J. C. M. I., vol. 2, p. 166. 19 pages. I.
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- AN ELECTRIC PERCUSSIVE ROCK-DRILL. By E. Dane. T. I. M. & M., vol. 10, p. 219. 14 pages. I.
- ELECTRICAL MINING DRILLS, GERMANY. By F. C. Perkins. M. & M., May, 1903, p. 440.
- ELECTRIC MOTORS FOR POWER DRILLS. Min. & Sci. Press, vol. 84, p. 201.
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- NEW ELECTRIC COAL DRILL. E. & M. J., vol. 57, p. 536. 1 column. I.
- THE SIEMENS AND HALSKE ELECTRIC ROCK DRILLS. By W. Meissner. E. & M. J., vol. 60, p. 275. 5 columns. I.
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- THE PISTON ACTION OF THE ELECTRIC AIR DRILL. E. & M. J., vol. 82, p. 699.  $3\frac{1}{2}$  columns. I.

- ELECTRIC VS. AIR DRILLS. E. & M. J., vol. 82, p. 746. 3 columns.
- ELECTRIC VS. AIR DRILLS. E. & M. J., vol. 82, p. 552.  $1\frac{1}{2}$  columns.
- ELECTRIC VS. AIR DRILLS. E. & M. J., vol. 82, p. 1033. 2 columns.
- ELECTRIC DRILL TESTS. Min. & Sci. Press, vol. 91, p. 126.  $\frac{3}{4}$  column.

### Forming and Tempering Drills

- KINDS AND SIZES OF BITS USED IN THE HEMATITE MINES OF NEW YORK, WITH METHODS OF SHARPENING. E. & M. J., vol. 82, p. 555.  $1\frac{1}{2}$  columns.
- THE MOHAW BIT. E. & M. J., vol. 82, p. 438. Notes. I.
- DRILL STEEL, BITS, DRESSING BITS AND TEMPERING. E. & M. J., vol. 82, p. 780. 3 columns.
- NEW FORM OF STEEL DRILL BAR. Min. & Sci. Press, vol. 49, p. 17.  $1\frac{1}{2}$  columns. I.
- "STAR" VS. "CHISEL" BIT. E. & M. J., vol. 81, p. 620. Note.
- GROOVED STEEL FOR DRILLS. Min. & Sci. Press, vol. 39, p. 396.  $\frac{1}{2}$  column. I.
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- PERCENT CARBON IN DRILL STEEL CAUSE OF DULLING EASILY. E. & M. J., vol. 80, p. 212. Note.
- TEMPERING IRON AND STEEL. E. & M. J., vol. 49, p. 538.  $1\frac{1}{2}$  columns.
- THE SCALE OF COLOR-TEMPERATURES. E. & M. J., vol. 80, p. 164. Note.
- LOSS OF TEMPER BY TREATMENT IN HOT WATER. E. & M. J., vol. 79, p. 1052. Note.

- THE TEMPERING STEEL FOR MINING PURPOSES.** M. & M., vol. 20, p. 188.  $\frac{1}{2}$  columns.
- CHANGES STEEL MAY UNDERGO IN TEMPERING.** M. & M., vol. 21, p. 43.  $\frac{1}{2}$  columns.
- CASE-HARDENING.** E. & M. J., vol. 56, p. 637.  $\frac{1}{2}$  column.
- STRAIGHTENING TEMPERED STEEL.** Min. & Sci. Press, vol. 64, p. 264.  $\frac{1}{2}$  column.
- THE HARDENING OF STEEL.** By H. M. Howe. E. & M. J., vol. 60, p. 173, 3 columns; and vol. 59, p. 344,  $\frac{3}{4}$  column.
- ON THE TEMPERING OF IRON HARDENED BY OVERSTRAIN (Couplings Hardened by Stretching may be Softened by Annealing).** By James Muir. Engineering, London, vol. 71, p. 126.  $2\frac{1}{2}$  columns.
- CRYSTALLIZATION OF METAL IN HITCHINGS.** M. & M., vol. 25, p. 549.  $\frac{1}{2}$  column.
- ROCK-DRILL BITS.** By T. H. Proske. E. & M. J., vol. 77, p. 724. 3 columns. I. Correction. E. & M. J., vol. 77, p. 758.  $\frac{1}{2}$  column. I.
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- TEMPERING MINE PICKS.** Min. & Sci. Press, vol. 31, p. 40.  $\frac{1}{2}$  column.
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- MERCURY TEMPERING.** E. & M. J., vol. 81, p. 715. Note.
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- THE PHILOSOPHY OF WELDING.** Min. & Sci. Press, vol. 37, p. 387.  $1\frac{1}{2}$  columns.
- THE IMPORTANCE OF DIPPING VERTICALLY IN TEMPERING.** Min. & Sci. Press, vol. 37, p. 67.  $\frac{1}{2}$  column.
- A DRILL SHARPENER.** Min. & Sci. Press, vol. 42, p. 312.  $\frac{1}{2}$  column. I.
- THE LEAD BATH IN TEMPERING.** Min. & Sci. Press, vol. 42, p. 83.  $\frac{3}{4}$  column.
- THE TEMPERING OF DRILL-BITS.** Min. & Sci. Press, vol. 94, p. 220. 1 column.
- THE LEYNER DRILL-SHARPENING MACHINE.** M. & M., vol. 28, p. 245. 2 columns. I.
- SHARPENING MINING TOOLS.** Min. & Sci. Press, vol. 88, p. 428, 2 columns, I.; vol. 89, p. 4,  $2\frac{1}{2}$  columns, I.
- THE EDGES OF DRILL BITS.** Min. & Sci. Press, vol. 84, p. 63.  $1\frac{1}{2}$  columns. I.
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- ANNEALING AND CASE HARDENING TOOL STEEL.** Min. & Sci. Press, vol. 87, p. 288.  $\frac{1}{2}$  column.
- TEMPERING TOOL STEEL, FACTORS INFLUENCING.** Min. & Sci. Press, vol. 87, p. 300.  $\frac{1}{2}$  column.
- TEMPERING STEEL TOOLS FOR MINING PURPOSES.** Min. & Sci. Press, vol. 63, p. 38.  $\frac{3}{4}$  column.
- TEMPERING STEEL.** Min. & Sci. Press, vol. 73, p. 154.  $\frac{3}{4}$  column.
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- HARDENING AND TEMPERING AT ONE OPERATION: Use of Milk.** Min. & Sci. Press, vol. 40, p. 115.  $\frac{3}{4}$  column.
- SHARPENING MINERS' TOOLS.** Min. & Sci. Press, vol. 51, p. 419.  $\frac{3}{4}$  column.
- TO SHARPEN AND TEMPER A HAND DRILL.** M. & M., Oct., 1904, p. 117.
- MAKING AND TEMPERING DRILLS.** M. & M., Aug., 1903, p. 38.
- BRADBURY'S MINING DRILL MAKING AND SHARPENING MACHINE.** E. & M. J., vol. 61, p. 325.  $\frac{1}{2}$  column. I.

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**COLORS OF HEATED STEEL CORRESPONDING TO DIFFERENT DEGREES OF TEMPERATURE.** By M. White and F. W. Taylor. E. & M. J., vol. 68, p. 762. 1 column.

### Use of Bore Holes

**BORING BLAST HOLES WITH WELL DRILLERS.** Eng.-Cont., vol. 27, p. 35.  $\frac{1}{2}$  column.

**DRILLING FOR GOLD DREDGING.** Min. & Sci. Press, vol. 85, p. 74.  $\frac{1}{2}$  column.

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**TAPPING DROWNED WORKINGS AT WHEATLEY HILL COLLIERY.** By W. B. Wilson. T. I. M. E., vol. 23, p. 72, 12 pages, I.; and p. 223, 8 pages.

**AN ORDINARY MINER'S BORING-MACHINE ADAPTED FOR BORING AGAINST WASTES.** By R. Martin. T. I. M. E., vol. 19, p. 69. 2 pages. I.

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### Prospect Drilling

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**VALUE OF THE DIAMOND DRILL FOR PROSPECTING, OR THE AMOUNT OF DEPENDENCE WHICH CAN BE PLACED UPON THE RECORD FURNISHED BY IT.** By H. M. Lane. M. & M., vol. 20, p. 49, 4 columns, I.; p. 101,  $4\frac{1}{2}$  columns, I.; p. 160, 3 columns, I.; p. 193,  $8\frac{1}{2}$  columns, I.; and p. 241, 8 columns, I.

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**DIAMOND DRILLING MACHINES.** By H. M. Lane. M. & M., vol. 20, p. 241. 8 columns.

**USES AND IMPORTANCE OF THE DIAMOND DRILL: Exploring Mines.** Min. & Sci. Press, vol. 36, p. 169.  $1\frac{1}{2}$  columns.

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**DIAMOND DRILLS FOR UNDERGROUND EXPLOITATION.** By J. Humes. E. & M. J., vol. 83, p. 381. 3 columns. I.

**THE DIAMOND DRILL AS AN ORE FINDER.** By J. Humes. E. & M. J., vol. 83, p. 943. 2 columns.

- DIAMOND DRILLING: Prospecting.** The Witwatersrand Gold-Fields, p. 131. I.
- DEVIATION OF DRILL HOLES.** The Witwatersrand Gold-Fields, p. 142. I.
- TEST DRILLING ON THE MESABI IRON RANGE.** By K. Thomas. E. & M. J., vol. 75, p. 896, 6 columns, I.; and p. 966, 3½ columns, I.
- PRELIMINARY STUDY OF RECENT BORINGS MADE IN THE NORTH OF FRANCE IN SEARCH OF THE COAL-BASIN.** By J. Grosselet. T. I. M. E., vol. 18, p. 317. 8 pages.
- EXPLORING WITH THE GOVERNMENT DIAMOND DRILL.** By T. W. Gibson. T. F. C. M. I., vol. 1, p. 197. 17 pages.
- FINDING ORE BY DRILLING.** E. & M. J., vol. 68, p. 582. 1 column.
- STATE DRILLING FOR MINERALS IN MISSOURI.** E. & M. J., vol. 69, p. 196. 1½ columns.
- DIAMOND DRILL PROSPECTING: In Southeast Missouri Lead District.** M. & M., Nov., 1901, p. 147.
- PROSPECTING WITH THE HAND AUGER AND DRILL.** Min. & Sci. Press, vol. 76, p. 620. 1½ columns.
- DRILLING ADJOINING FORTIES: Test Drilling.** E. & M. J., vol. 75, p. 897. I.
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- MACHINE FOR BORING TEST HOLES.** Min. & Sci. Press, vol. 37, p. 329. 1 column. I.
- PROSPECTING FOR GOLD WITH A DRILLING MACHINE.** By R. H. Postlethwaite. Min. & Sci. Press, vol. 78, p. 229. 3 columns. I.
- DIAMOND DRILL PROSPECTING.** Min. & Sci. Press, vol. 82, p. 106. ¾ column.
- PROSPECTING WITH CHURN DRILLS.** By F. S. Pheby. Min. & Sci. Press, vol. 93, p. 786. 2 columns.
- PROSPECTING WITH CHURN DRILLS.** By G. C. McFarlane. E. & M. J., vol. 80, p. 146. 5 columns. I.
- PROSPECTING FOR IRON ORE DEPOSITS IN SWEDEN BY DIAMOND DRILL.** Engineering, London, vol. 66, p. 502.
- PROGRESS IN COAL PROSPECTING.** E. & M. J., vol. 82, p. 401. 3 columns. I.
- PROSPECTING BY DEEP WELL DRILLING.** By L. C. Cornell. E. & M. J., vol. 84, p. 880. 2 columns.
- PROSPECTING DRILLS.** By W. Dickson. J. C. M. I., vol. 9, p. 387. 10 pages.
- PROSPECTING IN THE WISCONSIN ZINC FIELDS.** E. & M. J., vol. 81, p. 1233. 2 columns. I.
- PROSPECTING WITH KEYSTONE DRILL FOR COPPER ORE IN THE ELY, NEVADA, DISTRICT.** By C. E. Hart. E. & M. J., vol. 83, p. 804. 3½ columns. I.
- DRILLING ADJOINING FORTIES: Arrangement of Holes.** E. & M. J., vol. 75, p. 897. I.

### Churn Drills and Drilling

- A B C OF STEAM PERCUSSION DRILL PRACTICE.** By J. P. Hutchins. E. & M. J., vol. 84, p. 1111, 12 columns, I.; p. 1151, 15 columns, I.; and p. 1197, 15½ columns, I.
- BORING AN OIL WELL.** By J. H. Pierce. Min. & Sci. Press, vol. 91, p. 443. 2½ columns. I.
- THE AMERICAN SYSTEM OF DRILLING.** P. C. M., vol. 1, p. 106. 3½ pages. I.
- OIL WELL DRILLING WITH WIRE ROPE.** Min. & Sci. Press, vol. 83, p. 218. 1 column. I.
- FREE-FALLING DEVICES FOR DRILLING.** P. C. M., vol. 1, p. 98. 2 pages. I.
- ARTESIAN BORING AT GAINSBOROUGH: Largest Bore-Hole in Europe. (24-in. Tool.)** Engineering, London, vol. 71, p. 25. 1 column. I.
- THE MAKING OF AN OIL WELL BIT.** Min. & Sci. Press, vol. 86, p. 316. 1 column.

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**NOTES ON THE CONSTRUCTION AND PRACTICAL OPERATION OF ROCK DRILLING MACHINES.** By E. M. Weston. *P. C. M. & M. Soc. S. A.*, vol. 6, p. 38, 20 $\frac{1}{2}$  columns, I.; p. 118, 25 columns, I.; p. 162, 11 columns; p. 193, 3 columns; and p. 217, 12 columns.

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**ORDINARY WELL-BORING TOOLS.** *Min. & Sci. Press*, vol. 37, p. 289, 2 columns, I.; p. 305, I.; and p. 329, 2 columns, I.

**RATE OF WELL-BORING.** *Min. & Sci. Press*, vol. 37, p. 329.  $\frac{1}{2}$  column.

**BORING: England.** By W. W. Smyth. E. & M. J., vol. 22, p. 232, 2 columns, I.; p. 267, 2 columns; and p. 283, 2 columns, I.

**SELF-PUMPING WELL-BORING DRILL.** *Min. & Sci. Press*, vol. 28, p. 201.  $\frac{1}{2}$  column. I.

**IMPROVED ARTESIAN WELL BORER.** *Min. & Sci. Press*, vol. 33, p. 353.  $\frac{1}{2}$  column. I.

**METHODS OF DRILLING FOR OIL AND TOOLS USED (Austria-Hungary).** E. & M. J., vol. 56, p. 9. I.

**IMPROVED BORE-ROD COUPLING.** E. & M. J., vol. 50, p. 450.  $\frac{1}{2}$  column.

**DRILLING DERRICK OR CARPENTER'S RIG.** *Second. Geol. Survey Pa.*, A. C., Atlas, Pl. XXV.

**TOOLS USED IN SINKING THE ARTESIAN WELL, PLACE HERBERT, PARIS.** E. & M. J., vol. 45, p. 453.  $\frac{1}{2}$  column. I.

**WELL RECORDS: Collection and Preservation.** *M. & M.*, Dec., 1904, p. 257.

**ROUMANIAN PETROLEUM DERRICK AND THE OIL INDUSTRY.** E. & M. J., vol. 67, p. 593. 1 column. I.

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**WELL-BORING BY STEAM WITH A SPRING-POLE.** By B. S. Layman. E. & M. J., vol. 41, p. 131. 3 columns. I.

**COMPARISON OF TWO SYSTEMS OF ROCK DRILLING.** E. & M. J., vol. 42, p. 294.  $\frac{1}{2}$  column.

**RUNNING SAND IN BORINGS.** E. & M. J., vol. 64, p. 610.  $\frac{1}{2}$  column.

**BORING IN JAPAN.** By F. J. Norman. *T. I. M. E.*, vol. 23, p. 685. 14 pages. I.

### Diamond and Rotary Drills

**DIAMOND DRILLING, ROSSLAND, BRITISH COLUMBIA, ALSO AT BUTTE, MONTANA.** *M. & M.*, vol. 21, p. 363.  $\frac{1}{2}$  column.

**RATE OF DRILLING WITH DIAMOND DRILL.** *M. & M.*, vol. 20, p. 244.  $\frac{1}{2}$  column.

**THE DIAMOND DRILL AND ITS WORK.** E. & M. J., vol. 15, p. 65. 2 columns. I.

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- DIAMONDS OF DRILLING: Weight, Size, etc.** *E. & M. J.*, vol. 78, p. 782. Note.
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See COMPRESSED AIR for Further Information on DRILLING.

## THE INDUSTRIAL DEVELOPMENT OF MINING, AND PRODUCTION

### Economic and Industrial Features of Mining

**THE INFLUENCE OF GOVERNMENT UPON MINING.** By E. B. Kirby. J. C. M. I., vol. 6, p. 355. 18 pages.

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- PRODUCTION AND CONSUMPTION OF SPELTER IN 1906.** By W. R. Ingalls. E. & M. J., vol. 83, p. 937.  $11\frac{1}{2}$  columns. I.

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## DUMPING DEVICES

### Dumps, Cradles, Tipples, etc.

**DUMPING DEVICES.** By W. R. Crane. E. & M. J., vol. 79, p. 702.  $8\frac{1}{2}$  columns. I.

**CRADLE-TIP OR DUMPING CARS.** 2d Geol. Survey Pa. A.C., p. 456. I.

**SELF-ACTING TIPPLES (Dumps), ASHLAND MINE, MICHIGAN.** T. L. S. M. I., vol. 9, p. 27.

**AUTOMATIC DUMPING-CRADLES FOR MINE CARS.** By H. S. Munroe. T. A. I. M. E., vol. 17, p. 564. I.

**CAR CRADLE DUMP.** M. & M., vol. 22, p. 217. I.

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**DUMPS AND DUMPING AT THE COAL MINES, BRILLIANT, ALABAMA.** T. A. I. M. E., vol. 37, p. 499. 2 pages. I.

**A DUMPING DEVICE.** Min. & Sci. Press, vol. 94, p. 722. I.

**COLLIERY TIPPLERS (Dumps).** The Mechanical Handling of Material, p. 356. 6 pages. I.

**DISCHARGING OF RAILROAD TRUCKS.** The Mechanical Handling of Material, p. 278. 20 pages. I.

**UNLOADING CARS BY MEANS OF COAL TIPS.** The Mechanical Handling of Material, p. 298. 50 pages. I.

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**DEVICE FOR DUMPING ROCK.** M. & M., vol. 20, p. 327. 1 column. I.

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**MALISSARD-TAZA'S TIPPING-RIGS.** E. & M. J., vol. 50, pp. 129, 130.

**TIPPING OR DUMPING ARRANGEMENTS.** The Witwatersrand Gold-Fields, p. 229. 10 pages. I.

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**MODERN COAL-TIPPLES.** By J. J. Prest. T. F. I. M. E., vol. 9, p. 231. 8 pages. I.

**THE LONG COAL CAR DUMPING MACHINE.** E. & M. J., vol. 60, p. 444. 2 columns. I.

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**BARNEY-DUMP.** T. A. I. M. E., vol. 19, p. 442. I.

**MINE-CAR DUMP FOR COAL BREAKER.** T. A. I. M. E., vol. 19, p. 438.

**AN IMPROVED CAR-DUMP.** M. & M., Feb., 1904, p. 331.

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**SIDE-TIPPLER (Cradle-dump).** Min. Mag., vol. 12, p. 277. I.

**ELECTRICALLY DRIVEN CRADLE TIPPLES.** M. & M., vol. 27, p. 249. I.

**CIRCULAR DUMPING CAGE.** E. & M. J., vol. 44, p. 449.  $\frac{1}{2}$  column. I.

**SIDE TIPPLERS IN COAL DUMPING.**

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### Peat as a Fuel

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### Briquetting of Fuels and Ores

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- THE ZWAYER BRIQUETTE PROCESS.** E. & M. J., vol. 80, p. 1022. 2½ columns. I.
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- TESTING BRIQUETTE PITCH.** E. & M. J., vol. 80, p. 346. 1 column. I.
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- THE PROVINCE OF THE FUEL EXPERT.** By G. A. Hutchinson. E. & M. J., vol. 79, p. 987. 7 columns.
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### Air-Blasts, Volcanoes and Earthquakes

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- THE HUNTER V. MINE, BRITISH COLUMBIA.** By J. Ashworth. T. I. M. E., vol. 29, p. 338. 11 pages. I.
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- COBALT, CANADA.** By D'Arcy Weatherbe. Min. & Sci. Press, vol. 92, p. 161. 5 columns. I.
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- A SILVER VEIN UNDER CLEAR LAKE, COBALT. By J. J. Bell. E. & M. J., vol. 82, p. 823. 1 column.
- THE COBALT MINING DISTRICT. By W. M. Courtis. E. & M. J., vol. 82, p. 5. 6 columns. I.
- THE COBALT DISTRICT, CANADA. E. & M. J., vol. 82, p. 1181. 3 columns.
- THE NIPISSING AND FOSTER: Cobalt Mines. By R. Meeks. E. & M. J., vol. 83, p. 274. 8 columns. I.
- THE MINES OF COBALT. By R. Meeks. E. & M. J., vol. 83, p. 138, 11 columns, I.; and p. 186, 8 columns, I.
- THE MINES AT COBALT, CANADA. By R. Meeks. E. & M. J., vol. 83, p. 96. 7 columns. I.
- THE BONANZA SILVER MINES OF COBALT, ONTARIO. By W. S. Hutchinson. E. & M. J., vol. 83, p. 793. 4 columns. I.
- THE SILVER ISLET MINE AND ITS PRESENT DEVELOPMENT. By F. A. Lowe. E. & M. J., vol. 34, p. 320. 4½ columns.
- THE SILVER ISLET VEIN, LAKE SUPERIOR. By W. McDermott. E. & M. J., vol. 23, p. 54, 1½ columns; and p. 70, 1½ columns.
- A WHOLE ISLAND OF SILVER ON THE NORTH SHORE OF LAKE SUPERIOR (Silver Islet). E. & M. J., vol. 11, p. 4. ½ column.
- THE SILVER MINES OF THUNDER BAY, LAKE SUPERIOR. By R. Bell. E. & M. J., vol. 43, p. 23, 1 column; p. 42, 1 column; and p. 345, 1½ columns.
- THE SILVER MINES OF THUNDER BAY. By P. McKellar. E. & M. J., vol. 59, p. 391. 1½ columns.
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- THE RAINY LAKE GOLD DISTRICT. E. & M. J., vol. 58, p. 581. 1 column.
- THE GEOLOGY AND CHARACTER OF THE RAINY LAKE GOLD DISTRICT, CANADA. By W. W. Taylor. E. & M. J., vol. 58, p. 509. ½ column.
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- THE LAKE OF THE WOODS GOLD-FIELD. By T. A. Rickard. E. & M. J., July 3, 1897, p. 5. 5½ columns. I.
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- NOTES ON THE LAKE OF THE WOODS DISTRICT. By F. H. Probert. T. I. M. & M., vol. 8, p. 332.
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- THE GOLD-BEARING VEINS OF BAG BAY, NEAR LAKE OF THE WOODS. By Peter McKellar. T. A. I. M. E., vol. 29, p. 104.
- NOTES ON GOLD MINING IN HASTINGS COUNTY, ONTARIO, CANADA. By J. T. Donald. E. & M. J., vol. 66, p. 668. 1 column.
- THE KLONDIKE GOLD-FIELDS. By H. Bratnaber. E. & M. J., vol. 64, p. 484. 1½ columns.
- THE BED-ROCK OF THE GILBERT RIVER GOLD-FIELDS, QUEBEC. By J. A. Dresser. J. C. M. I., vol. 8, p. 259. 8 pages. I.
- THE MONTREAL RIVER SILVER DISTRICT. By R. Meeks. E. & M. J., vol. 84, p. 544. 12 columns. I.

- NEW SILVER DISTRICT IN THE TEMAGAMI RESERVE, CANADA.** By L. H. Mattair. E. & M. J., vol. 83, p. 1144. 2½ columns. I.
- TIMISKAMING, CANADA.** By S. Dillon-Mills. E. & M. J., vol. 79, p. 996. 4 columns. I.
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- NOVA SCOTIA GOLD MINES.** By G. W. Stuart. E. & M. J., vol. 67, p. 292. 1 column.
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- NOTES ON THE GOLD ORES OF WESTERN ONTARIO.** By C. Brent. J. C. M. I., vol. 6, p. 327. 9 pages.
- GOLD MINING IN THE YUKON DISTRICT.** By W. M. Ogvie. T. F. C. M. I., vol. 263. 10 pages.
- NOTES ON THE WESTERN ONTARIO GOLD FIELDS.** T. F. C. M. I., vol. 2, p. 278. 5 pages.
- THE GOLD DEPOSITS OF THE EASTERN TOWNSHIPS.** By R. W. Ellis. T. F. C. M. I., vol. 1, p. 109. 18 pages.
- THE GOLD-BEARING DEPOSITS OF THE EASTERN TOWNSHIPS OF QUEBEC.** By R. Chalmers. T. F. C. M. I., vol. 2, p. 13. 29 pages.
- THE MISPICKEL GOLD ORES OF DELORO, ONTARIO.** By J. W. Wells. T. F. C. M. I., vol. 2, p. 127. 7 pages.
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- WORK IN THE GOLD-FIELDS OF ONTARIO, CANADA.** E. & M. J., vol. 60, p. 445. 1 column.
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- THE GOLD-BEARING MISPICKEL VEINS OF MARMORA, ONTARIO, CANADA.** By R. P. Rothwell. T. A. I. M. E., vol. 9, p. 409.
- THE WESTERN ONTARIO GOLD FIELDS AND THEIR GENESIS.** By F. Hille. T. F. C. M. I., vol. 2, p. 78. 15 pages. I.
- WEST KOOTENAY ORE BODIES.** By R. W. Brock. J. C. M. I., vol. 2, p. 72, 15 pages, I.; and vol. 3, p. 141, 2 pages.
- DESCRIPTION OF THE SULTANA QUARTZ LODE, AND THE SINKING OF THE BURLEY SHAFT IN BALD INDIAN BAY, LAKE OF THE WOODS.** By J. Burley. J. C. M. I., vol. 2, p. 87. 9 pages. I.
- SOME WEST KOOTENAY ORE BODIES.** By J. C. Gwillim. T. F. C. M. I., vol. 3, p. 21. 8 pages.
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- NOTE ON WINDY ARM SILVER-BEARING VEINS.** By R. G. McConnell. J. C. M. I., vol. 9, p. 49. 5 pages.
- CHARACTERISTIC FEATURES OF VEINS IN GRANITE IN CALIFORNIA.** Min. & Sci. Press, vol. 78, p. 428. 3 columns.
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- MINING IN EASTERN NORTH CAROLINA. E. & M. J., vol. 77, p. 167. 2 columns.

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- QUARTZ MINING IN COLOMBIA. By F. F. Sharpless. E. & M. J., vol. 82, p. 485. 7 columns. I.
- GOLD IN COLOMBIA. By J. De La Pasada. E. & M. J., vol. 84, p. 827.  $3\frac{1}{2}$  columns. I.
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- GOLD MINING IN FRENCH GUIANA. By E. D. Levat. E. & M. J., vol. 65, pp. 39, 69. 2 columns.
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- THE OCAMPO DISTRICT, MEXICO. By A. R. Townsend. E. & M. J., vol. 77, p. 515. 5½ columns. Map.



- THE RAYON DISTRICT, CHIHUAHUA.** By T. A. T. Brown. E. & M. J., vol. 80, p. 1205.  $\frac{1}{2}$  column. I.
- GUANAJUATO.** By J. W. Malcolmson. E. & M. J., vol. 80, p. 529.  $2\frac{1}{2}$  columns.
- MINING IN MEXICO.** E. & M. J., vol. 77, p. 21. 6 columns. I.
- THE SANTA EULALIA DISTRICT, MEXICO.** E. & M. J., vol. 76, p. 158,  $7\frac{1}{2}$  columns, I.; p. 350,  $5\frac{1}{2}$  columns, I.
- MINAS NUEVAS, PARRAL, MEXICO.** By G. A. Burr. E. & M. J., vol. 75, p. 404,  $6\frac{1}{2}$  columns, I.; and p. 440,  $2\frac{1}{2}$  columns, I.
- THE PRIETA MINE OF PARRAL, MEXICO.** By L. M. Terry. E. & M. J., vol. 74, p. 738. 4 columns. I.
- THE MINING DISTRICT OF PARRAL, STATE OF CHIHUAHUA, MEXICO.** By G. A. Burr. E. & M. J., vol. 75, p. 216. 3 columns. I. Map.
- HIDALGO DEL PARRAL, CHIHUAHUA, MEXICO.** E. & M. J., vol. 72, p. 456. 2 columns. I.
- LA DESCUBRIDORA MINE, CHIHUAHUA, MEXICO.** E. & M. J., vol. 72, p. 698. 1 column. I.
- THE RAYAS AND MELLADO MINES, GUANAJUATO, MEXICO.** E. & M. J., vol. 72, p. 714.  $1\frac{1}{2}$  columns.
- THE MINING DISTRICT OF PACHUCA, MEXICO.** By I. E. Ordonez. E. & M. J., vol. 72, p. 719. 5 columns.
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### The Occurrence of Platinum

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### Occurrence of Iron Ores

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## HANDLING AND STORAGE OF MINERAL

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## HAULAGE IN MINES

## Tractive Force in Haulage

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### Haulage on Inclines

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### Compressed Air Haulage

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- COMPRESSED AIR AS A MOTIVE POWER: Interesting Experiments at Mr. Adamson's Works. T. N. S. I. M. & M. E., vol. 5, p. 154. 5 pages.
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### Electrical Haulage

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### Wheelbarrows

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### Mine Roads, Tracks

**MINE ROADS AND TRACKS.** By H. L.  
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8 columns. I.

**THE LOSSES DUE TO BAD TRACK BEDS  
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**USE OF SHORT RAILS IN A NEVADA  
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**CONSTRUCTION OF TRACKS IN COAL  
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**MINE RAILS, SWITCHES, ETC., ENGLAND.**  
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Hoisting Coal Increased.** By G. W.  
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## HOISTING IN MINING

**Calculations for Hoisting Engines**

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### Windlasses and Whims for Hoisting

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### Brakes for Hoists

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MAPS

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- ASSAYING OF SILVER BULLION.** By F. C. Blake. T. A. I. M. E., vol. 10, p. 490.
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- ASSAY OF COPPER.** By E. W. Buskett. M. & M., vol. 28, p. 123.  $1\frac{1}{2}$  columns.
- THE USE OF ZINC IN ASSAYING COPPER MATTE, ETC.** By D. M. Levy. T. I. M. & M., vol. 16, p. 397. 26 pages. I.
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See METALLURGY OF VARIOUS METALS for further information on Roasting.

### **Pyritic Smelting**

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## Metallurgy of Copper

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- RESULTS OF BAG-HOUSE EXPERIMENT IN CONNECTION WITH TAVENER'S PROCESS.** By H. Rusden. P. C. M. & M. Soc. S. A., vol. 5, p. 288. 2½ columns. I.
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- STONE-COAL IN THE LEAD BLAST-FURNACE.** By J. W. Neill. T. A. I. M. E., vol. 20, p. 165.
- THE LEAD-SMELTING WORKS OF PORT PIRIE.** By G. D. Delprat. E. & M. J., vol. 83, p. 516. 11½ columns. I.
- THE LEWIS-BARTLETT PROCESS AS APPLIED AT THE LONE ELM WORKS AT JOPLIN, MISSOURI.** By F. L. Clerc. E. & M. J., vol. 40, p. 4. 5 columns. I.

### Metallurgy of Zinc

- THE SMELTING OF ZINC ORES TO REGAIN SPelter AND SULPHURIC ACID.** By A. J. Diescher. P. E. Soc. W. Pa., vol. 20, p. 78. 33 pages. I.
- THE LUNGWITZ PROCESS OF ZINC SMELTING.** By F. W. Gordon. E. & M. J., vol. 81, p. 795. 6½ columns.
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- THE METALLURGY OF ZINC.** By H. Van F. Furman. M. & M., vol. 21, p. 34, 5½ columns, I.; p. 58, 5 columns, I.
- THE TREATMENT OF ZINC-LEAD SULPHIDES.** By F. Hille. E. & M. J., vol. 60, p. 195. 2 columns. I.

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### Electro-Metallurgy

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## METALS

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- FURTHER EXPERIMENTS ON AMORPHOUS GOLD.** By H. Louis. T. A. I. M. E., vol. 24, p. 705.
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## MINERALS

### Mineral Determination and Classification

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**SUMMARY OF USEFUL TESTS WITH THE BLOWPIPE.** By A. J. Moses. Sch. Mines Quart., vol. 11, p. 41. 15 pages.

**THE OPTICAL RECOGNITION AND ECONOMIC IMPORTANCE OF THE COMMON MINERALS FOUND IN BUILDING STONE.** By L. McI. Luquer. Sch. Mines Quart., vol. 15, p. 285. 51 pages.

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**Gems and Precious Stones**

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**PRECIOUS STONES: Pacific Coast.** By D. Maguire. M. & M., vol. 20, p. 255.  $3\frac{1}{2}$  columns.

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**NOTE ON ZIRCONS IN UNAKA-MAGNETITE.** By W. P. Blake. T. A. I. M. E., vol. 7, p. 76.

**DIAMONDS IN WISCONSIN.** E. & M. J., vol. 50, p. 686.  $\frac{1}{2}$  column.

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**BOHEMIAN GARNETS.** By G. F. Kuns. T. A. I. M. E., vol. 21, p. 241.

**HOW TO IDENTIFY PRECIOUS STONES.** By L. Claremont. E. & M. J., vol. 66, p. 606.  $1\frac{1}{2}$  columns.

For further information on precious stones see OCCURRENCE OF ONYX, SAPPHIRE, EMERALDS, ETC.

**MINE AND MILL CONSTRUCTIONS****Design of Structures: Materials and Methods of Construction**

**THE TESTING OF BUILDING STONE.** By E. C. Eckel. E. & M. J., vol. 75, p. 931.  $3\frac{1}{2}$  columns.

**THE TESTS AND REQUIREMENTS OF STRUCTURAL WROUGHT-IRON AND STEEL.** By A. E. Hunt. T. A. I. M. E., vol. 20, p. 677.

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- SUPPORTING POWER OF VARIOUS FOUNDATION SOILS IN TONS PER SQUARE FOOT.** Mill Building Construction, p. 16. Table.
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## MINING LAW

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For further information on Mining Law, see MINING LAW.

### **Extra-Lateral Rights and the Law of the Apex**

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### Claims, Taxes, Assessments and Locations

- THE ORIGINAL QUARTZ CLAIM IN GRASS VALLEY, CALIFORNIA, WAS 30 BY 40 FEET.** Min. & Sci. Press, vol. 81, p. 120. Note.
- DIAMOND CLAIMS ON THE VAAL RIVER.** T. I. M. & M., vol. 13, p. 528. 1 page.
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- MINING CLAIMS IN SQUARE LOCATIONS.** Min. & Sci. Press, vol. 40, p. 201.  $\frac{1}{2}$  column. I.
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- SIZE OF CLAIMS (Gravel) AT NOME, ALASKA.** E. & M. J., vol. 69, p. 106. Note.
- SIZE OF MINING CLAIMS AT BOULDER COUNTY, COLORADO, AND ELSEWHERE IN THE UNITED STATES.** T. I. M. E., vol. 19, p. 323. Note.
- LOCATION OF MINING CLAIMS: Square and Other Methods Considered.** By J. H. Morton. E. & M. J., vol. 26, p. 331. 1 column.
- MEXICAN TAXES ON GOLD AND SILVER.** E. & M. J., vol. 56, p. 486.  $\frac{3}{4}$  column.
- NEW MINING REGULATIONS IN CHIHUAHUA, MEXICO.** E. & M. J., vol. 80, p. 1108. 1 column.
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- AMOUNT OF ASSESSMENT WORK REQUIRED WHERE PLACER CLAIMS ARE TAKEN BY A NUMBER OF PARTIES, BEING CO-PARTNERS.** Min. & Sci. Press, vol. 84, p. 45. Note.
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- THE NEW LAW AS TO LOCATIONS, CALIFORNIA.** Min. & Sci. Press, vol. 74, p. 230.  $1\frac{1}{2}$  columns.
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### Mining Royalties

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### MINE LIGHTING

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### Electricity for Mine Lighting

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### Acetylene Gas for Mine Lighting

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## MINING

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- PROSPECTOR'S FIELD BOOK.** By H. S. Osborn.
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- STANLEY'S COAL HEADING MACHINE: Machine Drifting.** T. F. I. M. E., vol. 1, plate II.
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- SINKING BY THE FREEZING METHOD AT WASHINGTON, COUNTY DURHAM.** By M. Ford. T. I. M. E., vol. 23, p. 258, 4 pages; vol. 24, p. 293, 14 pages, I.
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- NOTES ON THE SINKING AT THE LENS COLLIERIES, No. 10 PIT, BY THE POETSCH SYSTEM.** By N. R. Griffith. T. F. I. M. E., vol. 2, p. 441. 2 pages.
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- SINKING THROUGH RUNNING SAND.** P. C. M., vol. 2, p. 207. 12 pages. I.
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- SINKING SHAFTS THROUGH QUICKSAND.** E. & M. J., vol. 57, p. 30. 1 column. I.
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- SINKING SHAFTS BY THE CEMENTING PROCESS.** By H. Schmerber. E. & M. J., vol. 82, p. 926. 1½ columns. I.
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- AN ACCOUNT OF SINKING AND TUBBING AT METHLEY JUNCTION COLLIERY.** By I. Hodges. T. I. M. E., vol. 32, p. 76. 10 pages. I.
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- THE LATEST PROGRESS IN SHAFT-SINKING.** By Chief Engineer Riemer. Sch. Mines Quart., vol. 24, p. 361. 40 pages. I.
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- ESTIMATES OF ORE IN A MINE.** E. & M. J., vol. 75, p. 552. 3½ columns. I.
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- EXAMINATION AND VALUATION OF MINES.** By Arthur Lakes. M. & M., Feb., 1903, p. 302.
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- ELLANGOWAN COLLIERY, PENNSYLVANIA: Occurrence of Coal, Methods of Mining, etc.** By G. B. Hadesty. Coll. Engr. & Met. Miner, vol. 16, p. 1. 11 columns. I.
- IMPROVEMENTS AND TENDENCIES IN CONTINENTAL COAL MINING.** By G. P. Scholl. Min. Mag., vol. 13, p. 190. 22 columns. I.
- COAL MINING AT MOUNT DIABLO.** By J. O'Callaghan. Min. & Sci. Press, vol. 39, p. 22. 3 $\frac{1}{2}$  columns.
- RECENT IMPROVEMENTS IN COAL MINING IN ILLINOIS.** By J. J. Rutledge. Min. Mag., vol. 13, p. 183. 12 columns. I.
- ON COAL MINING.** By R. Moffitt. T. N. S. I. M. & M. E., vol. 1, p. 41. 6 pages.
- COAL MINING METHODS: Causes of Different Methods of Working than are Applicable to Metals.** E. & M. J., vol. 80, p. 925. 4 $\frac{1}{2}$  columns.
- NOTES ON COAL-MINING IN OREGON.** By R. H. Norton. T. A. I. M. E., vol. 19, p. 23.
- METHOD OF MINING COAL IN SAXONY.** E. & M. J., vol. 78, p. 714. 2 $\frac{1}{2}$  columns. I.
- ALABAMA MINING METHODS.** By J. E. Strong. M. & M., vol. 21, p. 195.  $\frac{1}{2}$  column. Map.
- THE WINDBER MINE: A Description of the System of Underground Haulage and Mining Methods as Installed and Used.** By J. S. Cunningham. M. & M., vol. 21, p. 340. 3 columns. I.
- WORKING FLAT AND PITCHING ANTHRACITE SEAMS.** By M. S. Hachita. E. & M. J., vol. 84, p. 24. 11 $\frac{1}{2}$  columns. I.
- AN OUTLINE OF ANTHRACITE COAL MINING IN SCHUYLKILL COUNTY, PENNSYLVANIA.** By J. P. Wetherill. T. A. I. M. E., vol. 5, p. 402.
- A PROPOSED NEW METHOD OF MINING ANTHRACITE.** By W. S. Greley. E. & M. J., vol. 48, p. 136. 8 $\frac{1}{2}$  columns. I.
- MODIFICATION OF WORKING COAL LATELY INTRODUCED IN NOVA SCOTIA.** By J. G. Rutherford. J. M. Soc. N. S., vol. 1, pt. 4, p. 47. 16 pages. I.
- QUEENSLAND COAL-MINING, AND THE METHOD ADOPTED TO OVERCOME AN UNDERGROUND FIRE.** By E. S. Wight. T. F. I. M. E., vol. 4, p. 548. 5 pages.
- SYSTEMS OF WORKING EMPLOYED IN THE COAL-FIELDS OF NEW SOUTH WALES.** T. F. I. M. E., vol. 2, p. 292.

- EARLIER METHODS OF WORKING COAL.** Coll. Working and Management, p. 1. 8½ pages. I.
- METHODS OF WORKING THE THIN COAL-SEAMS OF THE BRISTOL AND SOMERSET COAL-FIELD.** By G. E. J. McMurtrie. T. I. M. E., vol. 20, p. 340. 19 pages. I.
- METHOD OF MINING COAL IN INDIA.** T. F. I. M. E., vol. 6, p. 430. I.
- CLEAVAGE PLANES AND THEIR INFLUENCE ON THE ECONOMICAL WORKING OF COAL.** By G. G. André. T. N. S. I. M. & M. E., vol. 2, p. 132. 11 pages.
- CLEAVAGE PLANES AND THEIR INFLUENCE ON THE ECONOMICAL WORKING OF COAL.** E. & M. J., vol. 22, p. 43. 3½ columns.
- DANGEROUS ROOF OR "TOP" IN COAL MINING.** M. & M., vol. 21, p. 381. 2 columns. I.
- MINING METHODS IN THE CŒUR D'ALENE DISTRICT, IDAHO: Thick Veins.** By R. N. Bell. Min. Mag., vol. 13, p. 306. 5 columns. I.
- METHOD OF MINING SHEET GROUND IN THE JOPLIN DISTRICT.** M. & M., vol. 28, p. 171. 5 columns. I.
- MINING IN SOUTHEAST MISSOURI LEAD MINES.** By R. B. Brinsmade. M. & M., Nov., 1901, p. 145.
- MINING PRACTICE IN SOUTHEAST MISSOURI: The Country, the Mines, and the Method of Prospecting and Working.** By R. B. Brinsmade. M. & M., Dec., 1901, p. 215. 8½ columns.
- MINING PRACTICE AT ROSSLAND, BRITISH COLUMBIA.** By R. B. Brinsmade. M. & M., vol. 21, p. 363. 9 columns. I.
- THE MINING AND METALLURGY OF ZINC IN THE UNITED STATES.** By F. L. Clerc. E. & M. J., vol. 36, p. 148, 7 columns; p. 168, 2½ columns; p. 180, 3½ columns.
- ABSTRACT OF A PAPER ON THE MINES AND WORKS OF THE LEHIGH ZINC COMPANY.** By H. S. Drinker. T. A. I. M. E., vol. 1, p. 67.
- CHINESE METHODS OF MINING QUICK-SILVER.** By H. Brelich. T. I. M. & M., vol. 14, p. 483. 15 pages. I.
- MINING AND METALLURGY OF QUICK-SILVER IN MEXICO.** By J. Mactear. T. I. M. & M., vol. 4, p. 69.
- MINING AND TREATMENT OF QUICK-SILVER ORES AT GUADALCAZAR, MEXICO.** By W. H. Rundall. E. & M. J., vol. 59, p. 607. 2½ columns. I.
- DIAMOND MINING.** By F. D. Hill. E. & M. J., vol. 84, p. 151. 4½ columns.
- SOME VIEWS AT THE KIMBERLEY DIAMOND MINES.** E. & M. J., vol. 68, p. 637. 2 columns. I.
- THE DIAMOND MINES OF SOUTH AFRICA.** By G. F. Williams. T. A. I. M. E., vol. 15, p. 392.
- THE POETSCH SYSTEM OF MINING IN QUICKSAND.** E. & M. J., vol. 37, p. 458. 1 column.
- A NEW DEPARTURE IN MANGANESE MINING.** By J. S. C. Wells. E. & M. J., vol. 74, p. 144. 2 columns. I.
- METHOD OF MINING MANGANESE AT CRIMORA, VIRGINIA.** E. & M. J., vol. 49, p. 333.
- CORNISH TIN MINING IN PHOTOGRAPH.** E. & M. J., vol. 58, p. 130, 1 column +, I.; p. 154, ½ column; p. 178, ½ column, I.; p. 202, Note; p. 226, Note; p. 251, Note; p. 275, Note; p. 298, Note.
- THE MINING, CONCENTRATION AND ANALYSIS OF CORUNDUM IN ONTARIO, CANADA.** By W. L. Goodman. T. I. M. E., vol. 23, p. 446. 11 pages. I.
- THE JENKS CORUNDUM MINE, MACON COUNTY, NORTH CAROLINA.** By R. W. Raymond. T. A. I. M. E., vol. 7, p. 83.
- THE MINING AND PREPARATION OF KAOLIN.** By T. C. Hopkins. E. & M. J., vol. 68, p. 245. 2 columns. I.
- A NOVEL METHOD OF MINING KAOLIN.** By A. R. Ledoux. T. A. I. M. E., vol. 37, p. 319. 2½ pages.

**CLAY MINING:** A Description of the Methods Employed in Mining Clay by the Columbus Brick and Terra Cotta Company at Union Furnace, Ohio. By E. Lovejoy. M. & M., vol. 19, p. 385. 2½ columns. I.

**A GRAPHITE MINE.** By R. H. Palmer. E. & M. J., vol. 68, p. 694. 1½ columns. I.

**ASBESTOS MINING AND DRESSING AT THETFORD.** By H. N. Thompson. T. F. C. M. I., vol. 2, p. 273. 5 pages.

**JET MINING (Black Amber).** E. & M. J., vol. 33, p. 260. ½ column.

**PUMICE STONE MINING.** E. & M. J., vol. 60, p. 246. ¾ column.

### The Caving System of Mining

**THE CAVING SYSTEM OF MINING.** By W. H. Storms. Min. & Sci. Press, vol. 93, p. 48. 4 columns. I.

**CAVING AT MOWRY, ARIZONA.** M. & M., vol. 27, p. 529. ½ column. I.

**STOPING WITHOUT TIMBERS AT THE HOMESTAKE MINE, SOUTH DAKOTA.** By M. Ehle. M. & M., vol. 28, p. 460. 3¼ columns. I.

**THE "SLASH" SYSTEM OF MINING.** By C. T. Rice. E. & M. J., vol. 81, p. 1191. 1½ columns.

**THE "SLASH" SYSTEM OF MINING, TINTIC, UTAH.** E. & M. J., vol. 82, p. 548. Note.

**CAVING METHOD EMPLOYED AT THE MERCUR MINES, UTAH.** E. & M. J., vol. 68, pp. 754, 787.  
M. & M., vol. 25, p. 1.

**THE CAVING SYSTEM IN THE UTAH MINE, BINGHAM CANYON.** E. & M. J., vol. 84, p. 437. 2 columns.

**THE SLICING SYSTEM OF MINING, BINGHAM, UTAH.** M. & M., vol. 28, p. 105. 1 column. I.

**MINING METHODS AT BINGHAM, UTAH:** Use of Timber, Caving, etc. E. & M. J., vol. 77, p. 760. ½ column.

**THE BAMBERGER DELAMAR MINE, NEVADA.** E. & M. J., vol. 77, p. 725. 1½ columns. I.

**THE CLOSING OF THE COMSTOCK MINES.** E. & M. J., vol. 42, p. 289. ½ column.

**THE CAVING SYSTEM AS APPLIED TO THE ELY MINES, NEVADA.** Min. & Sci. Press, vol. 93, p. 630. 2 columns. I.

**THE CAVING SYSTEM OF MINING AT ELY, NEVADA.** E. & M. J., vol. 84, p. 679. ½ column.

**THE CAVING SYSTEM: A Successful Method of Mining Iron Ore Used at the Pewabic Mine, Michigan.** By M. P. Hulst. M. & M., vol. 19, p. 496. 2 columns. I.

**THE SLICING-AND-CAVING AND SQUARE-SET SYSTEMS IN THE MESABI IRON ORE RANGE.** E. & M. J., Feb. 23, 1905, p. 365.

**MINING METHODS IN MESABI IRON DISTRICT, MINNESOTA.** By Kirby Thomas. Min. & Sci. Press, Apr. 16, 1904, p. 258.

**"CAVING" IN THE MESABI DISTRICT, MINNESOTA.** T. L. S. M. I., vol. 10, p. 144. 5 pages. I.

**CAVING SYSTEMS OF MINING IRON ORE.** P. E. Soc. W. Pa., vol. 15, p. 76. 24 pages. I.

**"TOP-SLICING" AS EMPLOYED IN MICHIGAN IRON MINES.** J. C. M. I., vol. 7, p. 327. 6 pages.

**THE CAVING SYSTEM ON THE MENOMINEE RANGE.** By R. Meeks. E. & M. J., vol. 84, p. 99. 12 columns. I.

**THE CAVING SYSTEM AS EMPLOYED ON THE MARQUETTE IRON RANGE.** E. & M. J., vol. 83, p. 1131. 4 columns. I.

**THE MESABI RANGE: A Description of the Ore, and also the Open Pit, the Caving and the Milling Methods of Mining It.** By C. Brakenbury. M. & M., vol. 21, p. 150. 5½ columns.

### Pocket Mining

**POCKET MINING.** Min. & Sci. Press, vol. 36, p. 10. ½ column.

**THE "POCKET MINES" OF TUOLUMNE COUNTY.** Min. & Sci. Press, vol. 40, p. 354. 1½ columns.

- POCKET MINING.** Min. & Sci. Press, vol. 47, p. 169; vol. 50, p. 234. 1 column.
- POCKET MINING.** Min. & Sci. Press, vol. 54, p. 202. 1½ columns.
- SOME NEW FACTS IN POCKET MINING.** Min. & Sci. Press, vol. 56, p. 277. ½ column.
- POCKET MINING IN TUOLUMNE COUNTY.** Min. & Sci. Press, vol. 58, p. 355. 3 columns. I.
- POCKET MINING.** Min. & Sci. Press, vol. 67, p. 22, 1 column; p. 37, 1½ columns; p. 53, 1½ columns; p. 68, ½ column.
- WORKING DRIFT MINES.** Min. & Sci. Press, vol. 67, p. 81. 2 columns. I.
- POCKET MINING IN CALIFORNIA.** Min. & Sci. Press, vol. 70, p. 132, 2½ columns; p. 164, 2½ columns; p. 228, 2½ columns.
- Drift Mining**
- DRIFT MINING IN CALIFORNIA.** Min. & Sci. Press, vol. 53, p. 105, 4½ columns, I.; p. 293, 2 columns, I.; vol. 69, p. 34, ½ column.
- DRIFT MINING BY SHAFT.** By D'Arcy Weatherbe. Min. & Sci. Press, vol. 93, p. 115, 6 columns, I.; p. 143, 2 columns, I.
- WORKING DEEP DIGGINGS (Gravel).** Min. & Sci. Press, vol. 34, p. 24. 1½ columns.
- WHAT SHOULD BE DETERMINED BEFORE DRIFT MINING IS UNDERTAKEN.** Min. & Sci. Press, vol. 68, p. 18. ½ column.
- DRIFT-MINING.** By T. Egleston. Sch. Mines Quart., vol. 8, p. 204, 6 pages; p. 289, 20 pages.
- DRIFT-MINING IN CALIFORNIA.** By R. L. Dunn. E. & M. J., vol. 38, p. 388. 2½ columns.
- DRIFT MINING IN CALIFORNIA.** Min. & Sci. Press, vol. 30, p. 9, 2 columns, I.; p. 17, 1 column, I.; p. 57, ½ column.
- BLOCKING OUT IN ALLUVIAL MINES.** Min. & Sci. Press, vol. 47, p. 89. 1 column. I.
- DRIFT MINING.** Min. & Sci. Press, vol. 44, p. 8, 1½ columns; p. 24, 1½ columns; p. 40, 1½ columns; p. 56, 2 columns, I.; p. 80, 1½ columns.
- WORKING DRIFT MINES.** Min. & Sci. Press, vol. 52, p. 161. 2 columns.
- DRIFT MINING.** Min. & Sci. Press, vol. 53, p. 20. ½ column.
- WORKING OF DRIFT MINES.** Min. & Sci. Press, vol. 67, p. 81. ½ column. I.
- AN EXPERIENCE IN DRIFT MINING IN HARD CEMENT GRAVEL.** By L. H. Carver. Min. & Sci. Press, vol. 86, p. 7, 2½ columns, I.; p. 22, 2 columns, I.
- MACHINERY IN DRIFT MINING.** Min. & Sci. Press, vol. 49, p. 374. 1 column.
- THE RED POINT DRIFT GRAVEL MINE.** By C. F. Hoffman. Min. & Sci. Press, vol. 68, p. 22, 2 columns; p. 151, 2½ columns; p. 165, 3½ columns, I.; p. 181, 2½ columns, I.
- A CALIFORNIA DRIFT MINE.** By W. E. Thorne. Min. & Sci. Press, vol. 87, p. 199. 1 column. I.
- THE MAGALIA, CALIFORNIA, DRIFT MINE.** By A. D. Gassaway. Min. & Sci. Press, vol. 78, p. 372, 6 columns, I.; p. 400, 4 columns, I.
- THE KIMBLE DRIFT MINE, EL DORADO COUNTY, CALIFORNIA.** By G. W. Kimble. Min. & Sci. Press, vol. 85, p. 23. 2 columns. I.
- SIERRA COUNTY DRIFT MINES.** Min. & Sci. Press, vol. 41, p. 417. 2 columns. I.
- Methods of Stopping in Mines**
- STOPES AND STOPING:** Stopes, Underhand Stopping, Overhand Stopping, Combined Stopping, Breast or Side Stopping, Longwall Stopes, and Methods of Working Reefs which are Close Together. The Witwatersrand Gold-Fields, pp. 336-345.
- BREAKING THE ORE IN THE STOPE FACE.** The Witwatersrand Gold-Fields, p. 357. I.

- NOTES ON BREAKING GROUND.** By T. L. Carter. E. & M. J., vol. 74, p. 576. 4 columns. I.
- METHODS OF STOPING:** Over- and Under-hand on the Rand. Witwatersrand Gold-Fields, p. 335. 30 pages. I.
- OVERHAND STOPING AT LAKE SUPERIOR.** E. & M. J., vol. 82, p. 767. 6 columns. I.
- OVER-HAND STOPING AT THE EMMA MINE, CANADA.** E. & M. J., vol. 84, p. 497.  $\frac{1}{2}$  column.
- THE UNDER- AND OVER-HAND STOPING SYSTEMS.** By A. Williams. Coll. Engr. & Met. Miner, vol. 15, p. 172.  $3\frac{1}{2}$  columns. I.
- UNDERHAND STOPING AT THE DAVIS PYRITES MINE, MASSACHUSETTS.** E. & M. J., vol. 82, p. 675.  $2\frac{1}{2}$  columns. I.
- STOPING WITH MACHINE-DRILLS.** By B. L. Thane. T. A. I. M. E., vol. 29, pp. 770, 1045.
- STOPING WITH THE AIR-HAMMER DRILL.** By G. E. Wolcott. E. & M. J., vol. 84, p. 117.  $5\frac{1}{2}$  columns. I.
- STOPING WITH MACHINE DRILLS.** Min. & Sci. Press, vol. 81, p. 94. 1 column.
- METHOD OF MINING IN THE WITWATERSRAND GOLD-FIELD.** T. I. M. E., vol. 18, p. 97.
- UNDERGROUND WORK IN THE TRANSVAAL.** By P. Carter. Min. Mag., vol. 12, p. 273. 12 columns. I.
- MINING METHODS AT JOHANNESBURG.** By T. L. Carter. E. & M. J., vol. 75, p. 597.  $2\frac{3}{4}$  columns.
- THE WORKING OF A WIDE GOLD QUARTZ REEF IN SOFT GROUND AT REZENDE, RHODESIA.** By J. A. Woodburn. T. I. M. & M., vol. 12, p. 286. 15 pages. I.
- METHODS OF STOPING AT CRIPPLE CREEK.** By G. E. Wolcott. E. & M. J., vol. 84, p. 1003. 8 columns. I.
- METHOD OF STOPING AT THE CROSS MINE.** T. A. I. M. E., vol. 25, p. 775.
- MINING AT THE EAST FINGALL MINE, WEST AUSTRALIA (Method of Stoping).** Min. Mag., vol. 11, p. 447. 3 columns.
- STOPING ON THE RAND.** Gold Mines of the Rand, p. 127. 6 pages. I.
- STOPING IN WEST AUSTRALIA.** Gold Min. & Mill. W. Aus., p. 179. 1 page.
- STOPING AT THE DALY-WEST MINE.** M. & M., vol. 28, p. 354.  $\frac{1}{2}$  column.
- STOPING METHODS IN THE TINTIC DISTRICT.** M. & M., vol. 28, p. 293.  $\frac{1}{2}$  column.
- STOPING AT BINGHAM, UTAH.** M. & M., vol. 28, p. 105. 2 columns.
- STOPING SYSTEMS AT BROKEN HILL, AUSTRALIA.** By A. J. Moore. M. & M., vol. 27, p. 433. 9 columns. I.
- METHOD OF MINING (Overhand Stoping) IN THE KENTUCKY LEAD MINES.** E. & M. J., vol. 83, p. 658.  $1\frac{1}{2}$  columns. I.
- METHODS OF PROSPECTING AND MINING IN THE GALENA-JOPLIN DISTRICT.** By W. R. Crane. E. & M. J., vol. 72, p. 360. 5 columns. I.
- ZINC-BLENDE MINES AND MINING NEAR WEBB CITY, MISSOURI.** By C. Henrich. T. A. I. M. E., vol. 21, p. 3.
- METHODS OF WORKING THE ZINC DEPOSITS NEAR WEBB CITY, MISSOURI.** By O. Rees. Coll. Engr. & Met. Miner, vol. 15, p. 29.  $3\frac{1}{2}$  columns. I.
- ZINC MINING: A Description of the Methods of Mining and Dressing Zinc Ores.** By H. K. Landis. Coll. Engr. & Met. Miner, vol. 17, p. 62.  $5\frac{1}{2}$  columns. I.
- MINING ZINC ORE BY "DRIFT-SKIRT-ING."** T. A. I. M. E., vol. 37, p. 304. 3 pages. I.
- GROUND BREAKING IN THE JOPLIN DISTRICT: Stoping.** By Doss Brittain. E. & M. J., vol. 84, p. 255. 13 columns. I.

**THE FROZEN DEPOSITS OF THE NORTH.** Min. & Sci. Press, vol. 79, p. 379.  $\frac{1}{2}$  column.

**Packing Mine Working: Flushing Culm, Use of Waste, etc.**

**FLUSHING CULM IN ANTHRACITE MINES** By W. Griffith. M. & M., vol. 20, p. 388.  $5\frac{1}{2}$  columns. I.

**FLUSHING CULM: The Method of Filling Anthracite Mines with Culm and the Advantages of the Process.** M. & M., vol. 18, p. 342,  $3\frac{1}{2}$  columns; p. 389,  $5\frac{1}{2}$  columns. I.

**FLUSHING CULM: A Novel Plan of Conveying Culm into Old Workings to Support the Roof.** Coll. Engr. & Met. Miner, vol. 14, p. 11. 2 columns. I.

**CULM FILLING.** By W. S. Gresley. Coll. Engr. & Met. Miner, vol. 14, p. 32. 1 column.

**PACKING MINE WORKINGS.** E. & M. J., vol. 80, p. 154. 1 column.

**ROCK FILLING IN THE BALTIC MINE, MICHIGAN (Walled Entry).** E. & M. J., vol. 78, p. 905. I.

**FLUSHING THE MINES: Use of Culm as Mine Support.** The Anth. Coal Industry, p. 219. Roberts. 3 pages.

**FILLING OLD MINE WORKINGS.** By C. Cizek. E. & M. J., vol. 76, p. 770.  $\frac{1}{2}$  column.

**PACKING MINE WORKINGS WITH MATERIALS FLUSHED FROM THE SURFACE.** Min. Mag., vol. 11, p. 539.  $1\frac{1}{2}$  columns.

**SAND FLUSHING FROM THE SURFACE.** By V. Ranzinger. Min. Mag., Mar., 1905, p. 268.

**PACKING MINE WORKINGS WITH MATERIALS FLUSHED DOWN FROM THE SURFACE.** M. & M., vol. 26, p. 73, 1 column.

**SIZE OF PIPE TO USE IN FLUSHING CULM.** E. & M. J., vol. 82, p. 19. Note

**BREAKER-WASTE DISPOSAL.** E. & M. J., vol. 80, p. 304. 1 column.

**FLUSHING CULM IN MINES: Wear of Pipes Remedied by Turning. Relative Cost Compared with Metal.** E. & M. J., vol. 80, p. 344.  $\frac{1}{2}$  column.

**FLUSHING CULM IN COLLIERIES: Working Conditions.** E. & M. J., vol. 83, p. 1056.  $\frac{1}{2}$  column.

**FLUSHING CULM IN ANTHRACITE COAL MINING.** E. & M. J., vol. 83, p. 626. Note; p. 722. Note.

**AMOUNT OF WATER NECESSARY TO FLUSH CULM.** E. & M. J., vol. 82, p. 1124. Note.

**THE COMPRESSION OF STOPE FILLINGS.** By B. J. Oberhausen. Sch. Mines Quart., vol. 26, p. 271. 5 pages. I.

**USE OF WASTE FILLING.** E. & M. J., vol. 84, p. 1004.  $\frac{1}{2}$  column.

**AN ECONOMICAL MINING METHOD: Filling.** Min. & Sci. Press, vol. 85, p. 366.  $1\frac{1}{2}$  columns. I.

**FILLING SYSTEM OF MINING AT THE HOMESTAKE MINE.** Min. & Sci. Press, vol. 88, p. 177.  $3\frac{1}{2}$  columns. I.

**METHODS OF MINING ON THE MOTHER LODE, CALIFORNIA: Working in Swelling Ground. Filling System.** Min. & Sci. Press, vol. 82, p. 37,  $1\frac{1}{2}$  columns; p. 49,  $1\frac{1}{2}$  columns.

**MINING AT THE DALY-WEST MINE, UTAH: Stopping and Filling.** E. & M. J., vol. 82, p. 13. 1 column.

**PROPOSED METHOD OF FILLING IN ANTHRACITE MINING.** M. & M., vol. 19, p. 266.  $1\frac{1}{2}$  columns. I.

**FLUSHING CULM.** M. & M., vol. 18, p. 389,  $4\frac{1}{2}$  columns. I.; vol. 20, p. 388,  $5\frac{1}{2}$  columns. I.

**PACKING WORKED COAL SEAMS BY FLUSHING.** E. & M. J., vol. 77, p. 637. 2 columns. I.

**FILLING MINES (Coal) WITH SAND (in Upper Silesia).** E. & M. J., vol. 72, p. 704. Note.



**HYDRAULIC FILLING OF A COAL SEAM AT LENS, PAS DE CALAIS, FRANCE.** By L. R. Hill and M. Butt. E. & M. J., vol. 82, p. 543.  $4\frac{1}{2}$  columns. I.

**WATER-PACKING OF SEAMS.** By K. Müller and Musmann. T. I. M. E., vol. 27, p. 722. 2 pages.

**WATER-FLUSH STOWING IN MINES.** T. I. M. E., vol. 31, p. 700.  $3\frac{1}{2}$  pages.

**A SIMPLE METHOD OF WATER-STOWAGE EMPLOYED AT NO. 5 PIT OF THE ESCARPELLE MINES.** By Sante-Claire-Deville. T. I. M. E., vol. 35, p. 79. 8 pages.

**THE HYDRAULIC FILLING OF A COAL SEAM AT LENS, PAS DE CALAIS, FRANCE.** By L. R. Hill and M. Butt. T. I. M. & M., vol. 15, p. 371. 15 pages. I.

**THE CONVEYOR-SYSTEM FOR FILLING AT THE COAL FACE, AS PRACTICED IN GREAT BRITAIN AND AMERICA.** By W. C. Blackett and R. G. Ware. T. I. M. E., vol. 29, p. 449. 47 pages. I.

**A METHOD OF PACKING EXCAVATIONS IN COAL-SEAMS BY MEANS OF WATER.** By E. O. F. Brown. T. I. M. E., vol. 28, p. 325. 14 pages. I.

**THE FILLING METHOD AT THE BAL TIC AND TRIMOUNTAIN MINES.** E. & M. J., vol. 82, p. 769.  $2\frac{1}{2}$  columns. I.

**WORKING AN IRON MINE (Filling System).** Min. & Sci. Press, vol. 59, p. 305.  $4\frac{1}{2}$  columns. I.

**THE SYSTEM OF FILLING AT THE MINES OF THE MINNESOTA IRON COMPANY, SOUDAN, MINNESOTA.** By D. H. Bacon. T. A. I. M. E., vol. 21, p. 299.

**THE FILLING METHOD AT THE IRON MOUNTAIN MINE, CALIFORNIA.** Min. & Sci. Press, vol. 94, p. 56.  $\frac{1}{2}$  column. I.

**WORKING ZINC DEPOSIT AT KELLY, NEW MEXICO, BY THE FILLING METHOD: Advancing and Retreating.** M. & M., vol. 27, p. 52. 1 column. I.

## River Mining

**RIVER MINING.** Min. & Sci. Press, vol. 34, p. 137,  $\frac{1}{2}$  column. I.; p. 322,  $\frac{1}{2}$  column; p. 337,  $\frac{1}{2}$  column; vol. 35, p. 218,  $\frac{1}{2}$  column.

**RIVER-BED MINING.** Min. & Sci. Press, vol. 59, p. 342.  $\frac{1}{2}$  column.

**RIVER BED MINING.** Min. & Sci. Press, vol. 66, p. 308.  $\frac{1}{2}$  column.

**RIVER MINING IN CALIFORNIA.** By S. S. Boynton. E. & M. J., vol. 52, p. 266, 3 columns. I.; p. 636,  $\frac{1}{2}$  column.

**RIVER MINING IN CALIFORNIA.** Min. & Sci. Press, vol. 76, p. 312. 5 columns. I.

**DEEP-CREEK AND RIVER-BED MINING.** Min. & Sci. Press, vol. 57, p. 21.  $2\frac{1}{2}$  columns. I.

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## Deep Mining

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### Beach Mining

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- Excavation of Earth, Rock, and Ore, Use of Steam Shovels, Mechanical Excavators and Unloaders**
- EARTH CLASSIFICATION: Kinds of Earth; Test Pits.** By H. P. Gillette. Earthwork and Its Costs, Chap. 2, p. 19. 5 pages.
- EARTH AND EARTH STRUCTURES: Voids and Weight of Earth; Natural Slopes; Friction of Earth; Earth Pressure; Slips and Subsidences; Embankment Construction; and Effect of Freezing.** Earthwork and Its Cost, by H. P. Gillette, Chap. 18, p. 184.
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**THE MILLING METHOD AS APPLIED TO THE BADEN COPPER MINES, VALPARAISO.** E. & M. J., vol. 84, p. 1060.  $\frac{1}{2}$  column. I.

**"STRIPPING" AND "MILLING" IN THE MESABI DISTRICT, MINNESOTA.** T. L. S. M. I., vol. 10, p. 152. 4 pages.

### Quarrying Methods

**METHODS OF QUARRYING, CUTTING AND POLISHING GRANITE.** By W. C. Day. E. & M. J., vol. 51, p. 555.  $2\frac{1}{2}$  columns.

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**DIMENSION STONE QUARRYING: The Blasting Process.** E. & M. J., vol. 54, p. 248. 1 column.

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**THE POSITION AND METHOD OF WORKING BATH STONE IN THE QUARRIES OF THE BATH STONE FIRMS.** By W. David. T. I. M. E., vol. 20, p. 495. 5 pages.

### Hydraulic Mining: Methods and Appliances, Giants, Elevators, etc.

**NOTES ON HYDRAULIC MINING.** M. & M., vol. 28, p. 1. 8 pages. I.

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- ORIGIN AND DEVELOPMENT OF PLACER MINING.** *Placer Mining*, Chap. 9, p. 53.
- METHODS OF WORKING: Surface Mining; Working Frozen Ground; Drifting; Hydraulicking.** *Placer Mining*, Chap. 10, p. 62.
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- EXAMPLES OF PLACERS: The Roscoe Placer.** Placer Mining, Chap. 18, p. 134.
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- SLUICE HEAD AND GRADE IN HYDRAULICKING (Sluicing) TIN STONE.** Tin Deposits of the World, p. 47. Table.
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- PLACER MINING IN JOSEPHINE COUNTY, OREGON.** By A. B. Cousins. E. & M. J., vol. 74, p. 582. 2 columns. I.

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**PECULIAR METHOD OF HYDRAULICKING IN OREGON: Direct Centrifugal Pump Pressure.** M. & M., vol. 26, p. 123. ¼ column.

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**PLACERS OF THE BLACK HILLS, DAKOTA.** T. A. I. M. E., vol. 17, p. 571.

**THE GOLD PLACERS OF THE EASTERN URAL MOUNTAINS, RUSSIA.** By H. B. C. Nitze. E. & M. J., vol. 66, p. 305. 2½ columns. I.

### **Dredging for Gold and Other Materials: Practice and Appliances**

**GOLD DREDGING IN CALIFORNIA.** Min. & Sci. Press, vol. 91, p. 160, 4½ columns, I.; p. 178, 5 columns, I.

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**DREDGING: Prospecting and Historical.** By J. P. Hutchins. E. & M. J., vol. 80, p. 49, 3½ columns, I.; p. 102, 6½ columns.

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**OPERATING A DREDGE IN COLD CLIMATES BY SUBMERGING THE GRAVEL.** Min. & Sci. Press, vol. 93, p. 775. Note.

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- 1 column; p. 49, 2 columns, I.; p. 72,  $\frac{3}{4}$  column; p. 92,  $\frac{3}{4}$  column; p. 108, 1 column; p. 113, 1 column; p. 137,  $1\frac{1}{2}$  columns, I.
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- THE SPRING VALLEY HYDRAULIC GOLD MINE.** Min. & Sci. Press, vol. 43, p. 437.  $4\frac{1}{2}$  columns. I.
- THE SWEEPSTAKE PLACER MINE, TRINITY COUNTY, CALIFORNIA.** Min. & Sci. Press, vol. 82, p. 292. 1 column.
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- A NEW METHOD OF PLACER MINING FOR GOLD: A Device for Excavating and Handling Large Quantities of Material.** By F. B. Knight. M. & M., vol. 18, p. 385.  $6\frac{1}{2}$  columns. I.
- DREDGING FOR GOLD.** By C. C. Longridge. Engineering, London, vol. 67, p. 535,  $2\frac{1}{2}$  columns; p. 642, 4 columns; vol. 68, p. 34,  $4\frac{1}{2}$  columns; p. 192,  $2\frac{1}{2}$  columns.
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- GOLD DREDGING UNDER DIFFICULT CONDITIONS.** By F. W. Taylor. E. & M. J., vol. 77, p. 476, 5 columns, I.; p. 82, 5 columns.
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- SLUICES AND RIFFLES IN DREDGING.** By D. H. Stovall. Min. & Sci. Press, vol. 94, p. 575.  $2\frac{1}{2}$  columns. I.
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- BLASTING TIGHT PLACERS BEFORE DREDGING.** E. & M. J., vol. 78, p. 9.  $2\frac{1}{2}$  columns.
- A GOLD DREDGER FOR HEAVY WORK.** E. & M. J., vol. 77, p. 525.  $1\frac{1}{2}$  columns. I.
- A FEW NOTES UPON GOLD DREDGING.** By F. S. Clarke. J. C. M. I., vol. 5, p. 87. 10 pages. I.
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- GOLD DREDGING.** By R. H. Postlethwaite. M. & M., vol. 20, p. 341.  $3\frac{1}{2}$  columns. I.
- DREDGING FOR GOLD.** Min. & Sci. Press, vol. 65, p. 155.  $2\frac{1}{2}$  columns. I.
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- THE STATE ENGINEER AND THE DEBRIS QUESTION. Min. & Sci. Press, vol. 40, p. 74. 1½ columns.
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- DEBRIS DAM LEGAL AT LAST. Min. & Sci. Press, vol. 65, p. 234. 1 column.
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### Long-Wall Mining of Coal

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## MINE SUPPORT

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- THE SUBSIDENCES IN AND AROUND THE TOWN OF NORWICH IN CHESHIRE.** By T. Ward. T. I. M. E., vol. 19, p. 241. 24 pages. I.
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- CORNISH METHODS OF MINE-TIMBERING.** By G. P. Chaplin. T. F. I. M. E., vol. 13, p. 200. 10 pages. I.
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### Tunnel Support

**THE A-FRAME IN TUNNEL SUPPORT.** J. W. Soc. E., vol. 6, p. 33. 4 pages. I.

**TIMBERING THE MOUNT WOOD AND TOP MILL TUNNELS.** J. W. Soc. E., vol. 2, p. 53. 4 pages. I.

**NOTE ON TIMBERING ROADWAYS.** By S. Masor. T. I. M. E., vol. 35, p. 169. 4½ pages. I.

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**SIZE OF TIMBERS USED IN STRUTTING TUNNELS DRIVEN THROUGH DIFFERENT MATERIALS.** Tunneling, Prelini, p. 51. 1 page. Table.

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**TIMBER AND GOAF-WALL (pack-wall) COMBINATION FOR GOAF-ROAD.** M. & M., vol. 26, p. 134. I.

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- PROGRESSIVE TIMBERING OF TUNNEL (Croton Aqueduct) BY ENGLISH METHOD.** T. A. I. M. E., vol. 19, p. 738.
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- RELINING TIMBER LINED TUNNELS:** Boulder, Mullan, and Little Tom Tunnel. Tunneling, Prelini, p. 280. 10 pages.
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- REPLACING TIMBER SETS IN MINE ENTRIES.** M. & M., Apr., 1902, p. 429.
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## REDUCTION

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### Stamp-Mill Practice

- ORIGIN OF THE CALIFORNIA STAMP. By C. P. Stanford. Min. & Sci. Press, vol. 67, p. 262. 2½ columns.
- BATTERY FRAMES. Min. & Sci. Press, vol. 70, p. 376. 2 columns. I.
- A CANTILEVER BATTERY FRAME. By I. C. Boss. E. & M. J., vol. 77, p. 404. 3 columns. I.
- BATTERY FOUNDATIONS. E. & M. J., vol. 77, p. 877. 1 column.

- DUTY OF STAMPS ON RAND AND ELSEWHERE. E. & M. J., vol. 78, p. 141. Table.
- A BUILT-UP WOODEN-FRAMED STAMP BATTERY. E. & M. J., vol. 61, p. 541.  $\frac{1}{2}$  column. I.
- THE "A" BATTERY FRAME FOR STAMP MILLS. By R. W. Bartell. M. & M., vol. 20, p. 181.  $2\frac{1}{2}$  columns. I.
- THE "A" FRAME BATTERY. Min. & Sci. Press, vol. 90, p. 252.  $1\frac{1}{2}$  columns. I.
- THE HUSBAND PNEUMATIC STAMP USED AT CORNWALL. E. & M. J., vol. 83, p. 709.  $\frac{1}{2}$  column. I.
- ATMOSPHERIC STAMP (Steens). Min. & Sci. Press, vol. 41, p. 205.  $\frac{2}{3}$  column. I.
- THE HUNTINGTON OSCILLATING STAMP. Min. & Sci. Press, vol. 41, p. 237.  $\frac{3}{4}$  column. I.
- KENDALL'S ROTARY STAMP. Min. & Sci. Press, vol. 41, p. 265.  $\frac{1}{2}$  column. I.
- DAY'S ATMOSPHERIC STAMP. Min. & Sci. Press, vol. 45, p. 161. 1 column. I.
- McFARLAND'S PROSPECTING STAMP. Min. & Sci. Press, vol. 47, p. 161.  $1\frac{1}{2}$  columns. I.
- A NEW ROTARY STAMP MILL. Min. & Sci. Press, vol. 36, p. 193. 3 columns. I.
- THE NISSEN STAMP. M. & M., vol. 26, p. 170. 2 columns. I.
- NISSEN'S CIRCULAR STAMP MORTAR. E. & M. J., Jan. 26, 1905, p. 203.
- KENDALL'S OSCILLATING STAMP. Min. & Sci. Press, vol. 31, p. 161.  $\frac{1}{2}$  column. I.
- THE "ELEPHANT ORE STAMP." Min. & Sci. Press, vol. 37, p. 81. 1 column. I.
- HAND-POWER PROSPECTING STAMP MILL. Min. & Sci. Press, vol. 38, p. 217.  $\frac{1}{2}$  column. I.
- NEW FORM OF STAMP MILL. Min. & Sci. Press, vol. 38, p. 297. 1 column.
- AN IMPROVED (Stamp) COIN. Min. & Sci. Press, vol. 40, p. 9.  $\frac{1}{2}$  column. I.
- SINGLE-STAMP MILL. Min. & Sci. Press, vol. 94, p. 146,  $1\frac{1}{2}$  columns; p. 303,  $\frac{3}{4}$  column.
- THE HAND-STAMP. By Geo. J. Bancroft. Min. & Sci. Press, vol. 92, p. 365.  $\frac{1}{2}$  column. I.
- AN INGENIOUS STAMP-MILL. By L. Fogle and R. Leonard. Min. & Sci. Press, vol. 93, p. 319. 2 columns. I.
- CANTILEVER STAMP BATTERY. Min. & Sci. Press, vol. 92, pp. 104 and 105.  $\frac{1}{2}$  column. I.
- A MODERN STAMP-MILL. Min. & Sci. Press, vol. 92, p. 200.  $\frac{1}{2}$  column. I.
- ORIGIN OF THE CALIFORNIA STAMP. Min. & Sci. Press, vol. 76, p. 107.  $3\frac{1}{2}$  columns. I.
- THE CORNISH STAMP MILL. By C. M. Myrick. Min. & Sci. Press, vol. 83, p. 326. 2 columns. I.
- THE MODEL BATTERY OF 1895. Min. & Sci. Press, vol. 70, p. 329.  $\frac{3}{4}$  column. I.
- STEEL FRAME STAMP BATTERY. Min. & Sci. Press, vol. 71, p. 265. 3 columns. I.
- BATTERY FRAMES. Min. & Sci. Press, vol. 75, p. 345. 3 columns. I.
- A HIGH-SPEED BATTERY. Min. & Sci. Press, vol. 75, p. 92.
- INNOVATION IN STAMP PRACTICE. Min. & Sci. Press, vol. 75, p. 168.  $\frac{1}{2}$  column.
- A NOVEL QUARTZ MILL: Stamp. Min. & Sci. Press, vol. 88, p. 43. 2 columns. I.
- TWO-STAMP AND THREE-STAMP MILLS. Min. & Sci. Press, vol. 77, p. 305. 1 column. I.

- A CALIFORNIA STAMP MILL. Min. & Sci. Press, vol. 70, p. 198. 2½ columns.
- SMALL BATTERIES. Min. & Sci. Press, vol. 44, p. 195. ¾ column.
- "FLOAT BATTERIES." Min. & Sci. Press, vol. 16, p. 105. ½ column. I.
- STAMP BATTERIES: Round and Square Stamps, etc. Min. & Sci. Press, vol. 25, p. 194. ¾ column.
- THE TRIP HAMMER QUARTZ MILL: Stamp. Min. & Sci. Press, vol. 23, p. 105. ½ column. I.
- CALIFORNIA BATTERY IN EUROPE. Min. & Sci. Press, vol. 27, p. 353. 1½ columns. I.
- LIGHT STAMPS NOT THE BEST. Am. Jour. Min., vol. 2, p. 217. ¾ column.
- DART'S IMPROVED STAMPS. Am. Jour. Min., vol. 2, p. 81. ½ column. I.
- THE PARNALL KRAUSE STAMP MILL MORTAR. E. & M. J., vol. 73, p. 488. 3 columns. I.
- THE SHARPNECK STAMP. E. & M. J., vol. 37, p. 445. 1 column. I.
- COMPARATIVE TABLE OF STAMP MILLS, GIVING GENERAL CHARACTERISTICS OF SIX OF THE PRINCIPAL GOLD-MINING CENTERS. T. F. I. M. E., vol. 7, p. 108. Table.
- GRAVITATION STAMP MILLS FOR QUARTZ CRUSHING. By D. B. Morison. Engineering, London, vol. 63, p. 624, 4 columns, I.; p. 661, 5½ columns, I.; p. 791, 1 column.
- A DEVELOPMENT IN GRAVITATION STAMP MILLS. By D. B. Morison and D. A. Bremner. T. I. M. & M., vol. 8, p. 156.
- A BODIE GOLD STAMP MILL. By R. G. Brown. E. & M. J., vol. 61, p. 615. 3½ columns. I.
- GRAVITY STAMPS. M. & M., Aug., 1903, p. 39.
- THE PACHUCA STAMP-BATTERY AND ITS PREDECESSORS. By M. P. Boss. T. A. I. M. E., vol. 32, p. 244.
- MERRALL'S STAMP MILL. E. & M. J., Jan. 26, 1905, p. 202.
- A PRIMITIVE STAMP MILL. E. & M. J., vol. 67, p. 531. ¾ column. I.
- MORISON'S HIGH SPEED STAMP MILL. E. & M. J., vol. 65, p. 705. 1½ columns. I.
- THE ELEPHANT (Spring) STAMP. E. & M. J., vol. 32, p. 41. 1 column. I.
- STAMP MILL CONSTRUCTION. E. & M. J., Feb. 23, 1905, p. 374. ¾ column.
- NOTES ON STAMP-BATTERY CONSTRUCTION. By C. G. W. Lock. T. I. M. & M., vol. 9, p. 310. 2½ pages. I.
- THE HUSBAND OSCILLATING STAMP IN CORNWALL. E. & M. J., vol. 38, p. 329. ¾ column.
- SPECIFICATIONS FOR BATTERY-FRAMES, BLOCKS (Mortar), etc. Min. & Sci. Press, vol. 72, p. 186. ¾ column.
- SPECIFICATIONS FOR A 40-STAMP GOLD MILL. Min. & Sci. Press, vol. 72, p. 165, 4½ columns; p. 206, 2 columns.
- THE DUTY OF STAMP MILLS IN CRUSHING AND AMALGAMATION. By C. DeKalb. J. C. M. I., vol. 4, p. 190. 5 pages.
- INFLUENCE OF THE VELOCITY ON THE EFFECTIVE DUTY OF STAMPS. By W. Main. E. & M. J., vol. 15, p. 241. 2 columns.
- STAMP DUTY AND CONSUMPTION OF WATER AT FALUN, SWEDEN. Min. & Sci. Press, vol. 31, p. 265. Note.
- DUTY OF STEAM STAMPS. E. & M. J., vol. 78, p. 918. Note.
- INFLUENCE OF THE VELOCITY OF IMPACT ON THE EFFECTIVE DUTY OF STAMPS. Min. & Sci. Press, vol. 26, p. 290. 1½ columns.
- STAMP MILL CAPACITY. Min. & Sci. Press, vol. 91, p. 444. ¾ column.
- STAMP MILL CAPACITY. Min. & Sci. Press, vol. 90, p. 239. 2 columns.

- THE DUTY OF A STAMP MILL. Min. & Sci. Press, vol. 87, p. 381.  $2\frac{1}{2}$  columns.
- ORDER OF DROP OF STAMPS. Min. & Sci. Press, vol. 87, p. 306.  $\frac{1}{2}$  column.
- STAMP MORTARS. M. & M., Apr., 1903, p. 424. 3 columns.
- SOME ACCESSORY STAMP-MILL APPLICATIONS. By G. O. Smart. E. & M. J., vol. 83, p. 471.  $2\frac{1}{2}$  columns. I.
- THE SIZE OF A STAMP-SHOE. Min. & Sci. Press, vol. 93, p. 50.  $\frac{1}{2}$  column.
- ESTIMATE OF SUPPLIES NEEDED TO RUN A 10-STAMP MILL FOR ONE MONTH. Min. & Sci. Press, vol. 94, p. 33 (? 825).  $\frac{1}{2}$  column.
- STAMP-MILL PRACTICE: Order of Drop of Stamp. Min. & Sci. Press, vol. 77, p. 352.  $\frac{1}{2}$  column.
- VIBRATION IN BATTERIES. By B. Waites. Min. & Sci. Press, vol. 86, p. 411.  $1\frac{1}{2}$  columns.
- BREAKAGE AND WEAR IN A 240-STAMP MILL, ALASKA-TREADWELL. Min. & Sci. Press, vol. 85, p. 20. Note.
- THE BREAKAGE OF STAMP STEMS. By M. P. Boss. Min. & Sci. Press, vol. 86, p. 102. 1 column.
- SOME VARIETIES OF WOOD BATTERY GUIDES. By W. J. Sharwood. Min. & Sci. Press, vol. 88, p. 242.  $3\frac{1}{2}$  columns. I.
- CONNECTING THE APRON AND BATTERY. Min. & Sci. Press, vol. 59, p. 101. 2 columns. I.
- THE WEIGHT OF STAMPS IN QUARTZ BATTERIES. Min. & Sci. Press, vol. 51, p. 373.  $\frac{1}{2}$  column.
- STAMPS. Min. & Sci. Press, vol. 52, p. 157. 1 column.
- A NEW CIRCULAR STAMP BATTERY. Min. & Sci. Press, vol. 52, p. 253. 1 column. I.
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- CURVE OF QUARTZ-MILL CAMS. Min. & Sci. Press, vol. 47, p. 168.  $\frac{1}{2}$  column.
- JAMES RECIPROCATING (Rocking) STAMP. Min. & Sci. Press, vol. 53, p. 277.  $\frac{1}{2}$  column. I.
- THE ECONOMIC ROTARY STAMP. Min. & Sci. Press, vol. 54, p. 265. 1 column. I.
- THE DOUBLE ECONOMIC STAMP. Min. & Sci. Press, vol. 55, p. 209.  $\frac{1}{2}$  column. I.
- THE "BALLY" CAM FOR STAMP MILLS. Min. & Sci. Press, vol. 66, p. 84.  $\frac{1}{2}$  column.
- THE COLEMAN TAPPET. Min. & Sci. Press, vol. 41, p. 109.  $\frac{1}{2}$  column. I.
- DRAWING OF INVOLUTE FOR STAMP CAM OR CAGE DOG. Coll. Engr., vol. 13, p. 153.  $\frac{1}{2}$  column. I.
- THE NEWTON MORTAR (750 Pound Stamp). By F. T. Snyder. E. & M. J., vol. 58, p. 511.  $\frac{1}{2}$  column. I.
- HAMMOND'S IMPROVED CAM AND TAPPET. Min. & Sci. Press, vol. 27, p. 225. 1 column. I.
- COCHRANE'S IMPROVED CAM. Min. & Sci. Press, vol. 35, p. 81.  $\frac{1}{2}$  column. I.
- RALEIGH'S BALANCED CAM FOR STAMP BATTERIES. E. & M. J., vol. 54, p. 107.  $1\frac{1}{2}$  columns. I.
- THE KRAUSE ATMOSPHERIC STAMP. E. & M. J., vol. 77, p. 769.  $3\frac{1}{2}$  columns. I.
- MORTAR BLOCKS. Min. & Sci. Press, vol. 89, p. 187.  $\frac{1}{2}$  column.
- BREMNER'S MORTAR BOX FOR STAMP MILLS. E. & M. J., vol. 80, p. 1063.  $1\frac{1}{2}$  columns. I.
- BATTERY FOUNDATIONS. E. & M. J., vol. 78, p. 421. 2 columns.
- STAMP TAPPETS. By M. P. Boss. E. & M. J., vol. 78, p. 584. 2 columns. I.
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- ANVIL BLOCKS FOR MORTARS. E. & M. J., vol. 78, p. 146. 1 column. I.
- STAMP-BATTERY SCREENS. M. & M., June, 1903, p. 520. 2 columns.



- STAMP CAMS AND CAM-SHAFTS:** A Description of the Different Forms of Cams and Methods of Fastening them to the Shaft; Construction of Shaft. M. & M., Sept., 1903, p. 74. 2½ columns. I.
- GUIDES FOR STAMPS.** M. & M., Mar., 1903, p. 373. 2 columns.
- STAMP-GUIDES:** The MacDonough Type. T. A. I. M. E., vol. 33, p. 518.
- WEIGHT OF STAMP, DROP, SPEED, AND AMOUNT OF TURN OF STAMPS IN VARIOUS MILLS.** T. A. I. M. E., vol. 23, p. 568.
- ON THE WEIGHT, FALL, AND SPEED OF STAMPS.** By H. S. Munroe. T. A. I. M. E., vol. 9, p. 84.
- THE NORDBERG COMPOUND STEAM STAMP.** E. & M. J., vol. 84, p. 349. 7 columns. I.
- NOTES ON STEAM AND OTHER STAMPS.** Min. & Sci. Press, vol. 78, p. 232. 3½ columns.
- IMPROVED STEAM STAMP MILL.** E. & M. J., vol. 6, p. 401. 1½ columns. I.
- WILSON'S PATENT STEAM STAMP-MILL.** E. & M. J., vol. 5, p. 17. ¾ column. I.
- DIRECT-ACTING STEAM STAMP MILL.** Am. Jour. Min., vol. 7, p. 289. 2 columns. I.
- THE FIRST STEAM STAMP:** Where Used. E. & M. J., vol. 79, p. 707. Note.
- STEAM STAMP FOR THE TAMARACK MILL, MICHIGAN.** E. & M. J., vol. 67, p. 237. 1½ columns. I.
- THE WOOD STEAM STAMP.** E. & M. J., vol. 68, p. 491. 2 columns. I.
- STEAM STAMPS, LAKE SUPERIOR.** M. & M., July, 1903, p. 538.
- NOTES ON THE STEAM STAMP.** By F. G. Coggin. E. & M. J., vol. 41, p. 210, 1½ columns; p. 232, 4½ columns, I.
- THE BALL STEAM STAMP.** Min. & Sci. Press, vol. 34, p. 345. 3½ columns. I.
- THE WILSON PATENT STEAM STAMP.** Min. & Sci. Press, vol. 19, p. 305. 2 columns. I.
- GIANT CRUSHING OF COPPER ORE:** Steam Stamp of 700 Tons Capacity. By A. S. Atkinson. M. & M., vol. 26, p. 346. 2½ columns.
- DIRECT STEAM ORE STAMPS.** By C. H. Fitch. Min. & Sci. Press, vol. 87, p. 25. 2 columns.
- STEAM STAMPS AT THE BAL TIC MILL, LAKE SUPERIOR.** T. I. M. & M., vol. 14, p. 191. 1½ pages.
- STAMP MILLS OF LAKE SUPERIOR.** By J. F. Blandy. T. A. I. M. E., vol. 2, p. 208.
- STAMP MILLING PRACTICE IN NOVA SCOTIA, AND THE ADVANTAGE OF INTRODUCING WATER UNDER PRESSURE BELOW THE CRUSHING SURFACES IN THE GOLD STAMP MILL.** By M. R. O'Shaughnessy. J. M. Soc. N. S., vol. 8, p. 110. 12 pages. I.
- MORE NOTES ON STAMP MILL PRACTICE.** By C. DeKalb. J. C. M. I., vol. 9, p. 64. 8 pages.
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- EXPERIENCES IN STAMP-MILLS.** By A. Del Mar. Min. & Sci. Press, vol. 93, p. 138. 3 columns. I.
- STAMPS: Minas Prietas Reduction Works.** By M. R. Lamb. Min. & Sci. Press, vol. 93, p. 147. 3 columns. I.
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- LOCATION, COST, AND CAPACITY OF COMSTOCK STAMP MILLS.** Min. & Sci. Press, vol. 34, p. 81. ¾ column.
- INNOVATIONS IN STAMP PRACTICE.** Min. & Sci. Press, vol. 75, p. 220. 1½ columns.

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- DATA FOR STAMP BATTERY PRACTICE, ELKHORN MINE, MONTANA. U. S. G. S., 22d Ann. Rept., pt. 2, p. 416. Table.
- CRUSHING TIN ORE AT THE DOLCOATH TIN MINES: Stamps and Huntington Mills. Tin Deposits of the World, p. 186.  $1\frac{1}{2}$  pages.
- NOTES ON CRUSHING OF METALLIFEROUS ORES IN THE STAMP BATTERY IN AFRICA. By F. O. Roberts. Min. & Sci. Press, vol. 89, p. 425, 2 columns; p. 436,  $2\frac{1}{2}$  columns, I.; vol. 90, p. 10,  $2\frac{1}{2}$  columns; p. 21,  $2\frac{1}{2}$  columns.
- BEST STAMP MILL PRACTICE ON LOW GRADE ORES. Min. & Sci. Press, vol. 86, p. 19. Note.
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- PROPOSED CHANGE IN STAMP MILL PRACTICE. Min. & Sci. Press, vol. 76, p. 228. 2 columns. I.
- STAMP MILL WORK. By J. Scobey. Min. & Sci. Press, vol. 83, p. 118. 3 columns. I.
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- CRUSHING QUARTZ: Stamps vs. Rotary Pulverizers. Min. & Sci. Press, vol. 56, p. 18.  $4\frac{1}{2}$  columns.
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- CERTAIN STAMP MILL PRACTICES. By J. W. Abbott. Min. & Sci. Press, vol. 74, p. 5.  $1\frac{1}{2}$  columns.
- RAPID AND SLOW-DROP STAMPS IN COLORADO. Min. & Sci. Press, vol. 74, p. 49. 1 column.
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- WATER REQUIRED IN WORKING QUARTZ (Stamping). Min. & Sci. Press, vol. 44, p. 385, 1 column; vol. 45, p. 361,  $1\frac{1}{2}$  columns.
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- PLANS OF QUARTZ MILLS: Wet and Dry Crushing. Min. & Sci. Press, vol. 25, p. 377. 2 columns. I.
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- THE RELATION BETWEEN THE SPEED AND EFFECTIVENESS OF STAMPS. By R. W. Raymond. T. A. I. M. E., vol. 1, p. 40.
- STAMP BATTERIES: Crushing and Grinding. By A. James. Min. Jour., Aug. 20, 1904.
- Queensland Gov. Min. Jour., June, 1904. Min. Mag., Sept., 1904, p. 225.  $1\frac{1}{2}$  columns.

- CRUSHING IN CYANIDE SOLUTION, AS PRACTICED IN THE BLACK HILLS, SOUTH DAKOTA.** By C. H. Fulton. T. A. I. M. E., vol. 35, p. 587. 27 pages. I.
- FEEDING STAMPS, ECONOMY OF.** M. & M., July, 1903, p. 543.
- STAMP BATTERIES AND THEIR OPERATION ON THE RAND.** Gold Mines of the Rand, pp. 188, 202, 203. 10 pages. I. Table.
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- THE SUTHERLAND PULVERIZER.** E. & M. J., vol. 63, p. 484. 1½ columns. I.
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- KOREAN GOLD-MILL APPARATUS.** T. A. I. M. E., vol. 18, p. 364.
- JEFFREY HAMMER PULVERIZER.** M. & M., Jan., 1905, p. 312. ¼ column.
- POWER-DRIVEN MULLER.** M. & M., Dec., 1904, p. 243.
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- THE DODGE PULVERIZING MILL.** E. & M. J., vol. 61, p. 613. ¾ column. I.
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## **Sampling and Measurement of Ore Bodies**

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- DIFFERENTIAL SAMPLING OF BITUMINOUS COAL-SEAMS.** By J. P. Kimball. T. A. I. M. E., vol. 12, p. 317.
- METHOD OF COAL-MINE SAMPLING.** E. & M. J., vol. 80, p. 679. 1 column.
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- SAMPLING OF COAL AND ORES.** Coll. Engr., vol. 12, p. 211. 1½ columns. I.
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- SAMPLING OF COAL.** P. C. M., vol. 1, p. 72. 1½ pages.
- METHODS OF SAMPLING COAL AT MINES AND ON CARS.** M. & M., vol. 28, p. 28. 2 columns.
- SAMPLING AT THE WASHOE WORKS, ANACONDA, MONTANA.** T. A. I. M. E., vol. 37, p. 436. 4 pages. I.
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### SIZING OF MINERAL

#### Screens: Theory of Sizing

- SIZES OF SCREENS FOR ORE.** Min. & Sci. Press, vol. 52, p. 425. 2 columns. D.
- SIZING BY SCREENS.** Min. & Sci. Press, vol. 34, p. 57, I.; p. 33, I.
- GRAPHIC RECORDS OF THE SCREENING OF CRUSHED MATERIALS.** By C. DeKalb. T. A. I. M. E., vol. 28, p. 468.
- ORE-DRESSING IN EUROPE: Sizing.** Sch. Mines Quart., vol. 4, p. 186. 10 pages.
- CLEANSING AND SIZING, SAXONY.** Sch. Mines Quart., vol. 14, p. 232, 6 pages, I.; pp. 330, 340, 10 pages, I.
- THE PLOTTING OF SIZING-TESTS.** By W. S. Hutchinson. T. A. I. M. E., vol. 35, p. 256. 32 pages. I.
- CLOSE SIZING BEFORE JIGGING IN ORE CONCENTRATION.** By R. H. Richards. E. & M. J., vol. 57, p. 153. 1½ columns.
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- SIZING AND CLASSIFICATION TROMMELS.** Machinery for Metalliferous Mines, pp. 277-291.
- MESH VS. APERTURE.** E. & M. J., vol. 76, p. 690, 1½ columns; p. 767, ½ column, p. 843, ¾ column; p. 959, 1½ columns, I.; p. 997, 1 column, table.
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- REPORT OF SUB-COMMITTEE ON THE STANDARDIZATION OF BATTERY SCREENING.** P. C. M. & M. Soc. S. A., vol. 6, end of vol. 24 columns.
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- STANDARD SCREENS FOR SCREEN ANALYSIS.** By C. DeKalb. E. & M. J., vol. 80, p. 151. 4 columns. D.
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- CLASSIFICATION BY AIR BLAST IN SAXONY.** Sch. Mines Quart., vol. 15, p. 118. 6 pages. I.
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- SCREENS FOR SIZING.** By E. A. Hersam. T. A. I. M. E., vol. 37, p. 265. 24 pages.

- NEW CENTURY DISINTEGRATING SCREEN.** E. & M. J., vol. 83, p. 846. 1½ columns. I.
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- MECHANICAL SCREENS.** By E. B. Wain. T. N. S. I. M. & M. E., vol. 10, p. 252. 6 pages. I.
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- BUCYRUS COAL SCREEN (Oscillating on Rollers).** E. & M. J., vol. 41, p. 357.
- ROLLED-SLOT SCREEN.** M. & M., Dec., 1904, p. 231.
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## SIGNALING IN MINES

### Signal Codes for Mines

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## SURVEYING

### Surveying Instruments

- HISTORY OF SOLAR SURVEYING INSTRUMENTS. By J. B. Davis. T. A. I. M. E., vol. 30, p. 803.
- MINE-SURVEYING INSTRUMENTS. By D. D. Scott. T. I. M. E., vol. 28, p. 624. 60 pages. I.
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### Surface Surveys: Claims, etc.

**NOTES ON SURVEYS AND LEVELINGS IN CANADA.** By G. L. Griffith. T. I. M. E., vol. 26, p. 552. 18 pages. I.

- THE GEOLOGICAL SURVEY OF CANADA AS AN EDUCATIONAL INSTITUTION.** By T. L. Walker. J. C. M. I., vol. 7, p. 435. 16 pages.
- THE ADVANTAGES OF COMBINING TOPOGRAPHICAL WITH GEOLOGICAL SURVEYING IN UNEXPLORED REGIONS.** By R. Bell. J. C. M. I., vol. 8, p. 56. 2 pages +.
- A CANADIAN DEPARTMENT OF MINES OR GEOLOGICAL SURVEY.** By J. B. Tytrel. J. C. M. I., vol. 9, p. 107. 7 pages.
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- MINE SURVEYING AS CARRIED ON AT CENTER STAR MINE, ROSSLAND, BRITISH COLUMBIA.** By L. H. Cole. J. C. M. I., vol. 8, p. 317. 19½ pages. I.
- A REFERENCE-SCHEME FOR MINE-WORKINGS.** By W. E. Sanders. T. A. I. M. E., vol. 37, p. 128. 12 pages. I.
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- COLLIERY SURVEYING AND OFFICE METHODS.** By F. W. Parsons. E. & M. J., vol. 82, p. 447.  $4\frac{1}{2}$  columns.
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- EXAMINATION AND SURVEY OF MINERAL LANDS.** E. & M. J., vol. 37, p. 41,  $1\frac{1}{2}$  columns; p. 98,  $\frac{1}{2}$  column.
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- ANTHRACITE MINE SURVEYING.** By R. Van A. Norris. Sch. Mines Quart., vol. 11, p. 328. 6 pages. I.
- INACCESSIBLE DISTANCES IN SURFACE AND UNDERGROUND SURVEYING.** By H. S. Munroe and J. W. Davis. Sch. Mines Quart., vol. 3, p. 25. 6 pages. I.
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- THE REAL ERROR OF A SURVEY.** By J. Bartell. M. & M., vol. 20, p. 299. 4½ columns. I.
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- DETERMINE A MERIDIAN FROM THE POSITION OF THE NORTH STAR.** M. & M., Dec., 1901, p. 232.
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- CLOSING A SURVEY.** M. & M., May, 1902, p. 476.
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- SURVEY STATIONS WHERE THE ROOF IS POOR.** By C. M. Henretta. M. & M., vol. 19, p. 247. ¼ column. I.
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## TRANSPORTATION

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## Wagon Roads, Wagons and Traction Engines

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**STEEL BARGES.** By R. J. Donovan. P. E. Soc. W. Pa., vol. 21, p. 520. 16 pages. I.

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- MODERN HANDLING OF IRON ORE ON THE GREAT LAKES.** By J. N. Hatch. J. W. Soc. E., vol. 7, p. 529. 32 pages. I.
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**THE HISTORY OF SHIP TRANSPORTATION (Hauling Ships).** E. & M. J., vol. 54, p. 626. 1 column.

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### Cableways: Their Construction and Use

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**INSTALLATIONS OF WIRE-ROPE TRAMWAYS OF THE FIXED CARRYING ROPE SYSTEMS.** Aerial or Wire-Rope Tramways, p. 130. 51 pages. I.

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## TUNNELING

### Methods of Tunneling

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- DRIVING A Tunnel IN QUICKSAND.** By R. K. Porter. M. & M., vol. 25, p. 587, note; vol. 26, p. 219,  $4\frac{1}{2}$  columns, I.
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### Examples of Tunneling

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- NOTES ON THE EXCAVATION OF THE NEW CROTON AQUEDUCT.** By J. P. Carson. T. A. I. M. E., vol. 19, p. 705.
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- THE SUTRO TUNNEL DEBATE. E. & M. J., vol. 9, p. 233. 1½ columns.
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- THE JOKER DRAINAGE TUNNEL. By R. L. Herrick. M. & M., vol. 27, p. 470. 8½ columns. I.
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### Tunneling Machines

- THE PRICE ELECTRICAL EXCAVATOR. T. I. M. E., vol. 26, p. 405. 2 pages. I.
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- MACHINE TUNNELING: Boring the Mount Cenis Tunnel. E. & M. J., vol. 6, p. 257. 3 columns. I.
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- THE IMPROVED STANLEY HEADER. Coll. Engr. & Met. Miner, vol. 14, p. 132. 2 columns. I.
- USE OF THE STANLEY HEADER IN COAL MINE DEVELOPMENT. T. I. M. E., vol. 26, p. 538. 6 pages. I.
- THE INGERSOLL-SERGEANT HEADING-MACHINES. T. I. M. E., vol. 31, p. 365. 8 pages. I.
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- AN ELECTRICAL HEADING MACHINE. By P. C. Greaves. T. I. M. E., vol. 27, p. 39. 9½ pages.

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### Subways

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**METHOD OF TUNNELING IN NEW YORK SUBWAY: Placing of Holes in Heading, etc.** Engineering, London, vol. 73, p. 364. I.

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## MINE VENTILATION

### Methods of Ventilating Mines. Splitting Air-Currents, etc.

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**DRAINING GAS FROM GOB WORKINGS BY BORE HOLES, WHERE IT IS PRACTICABLE: The Relative Advantages of Force and Exhaust Fans for This Purpose.** By C. Connor. M. & M., vol. 20, p. 489; vol. 21, p. 61, 8½ columns.

**AIR-HOLES FOR CONNECTING ADVANCE FACES.** E. & M. J., vol. 82, p. 977. Note.

### **Quantity of Air Needed in Mines**

**QUANTITY OF AIR CONSUMED BY: Workman with lamp, 240 cubic yards air in 24 hours; Horse, 850 cubic yards air in 24 hours; 1 Pound Gunpowder, 100 cubic yards air; 1 Pound Dynamite, 150 cubic yards air. Tunneling, C. Prelini, p. 295. Table.**

AMOUNT OF AIR REQUIRED FOR VENTILATION. M. & M., vol. 27, p. 158. 1 column+.

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ADEQUATE VENTILATION: The Amount of Air Needed for Men, Horses, and Lights under Various Conditions. By E. W. Thirkell. M. & M., vol. 18, p. 245. 4½ columns.

WHEN IS A MINE EFFICIENTLY VENTILATED? M. & M., vol. 19, p. 526. 1½ columns.

### Mine Ventilation by Furnaces

FURNACE VS. FAN VENTILATION. By J. Williamson. T. N. S. I. M. & M. E., vol. 2, p. 168. 8 pages.

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### Stoppings, Doors, and Regulators in Mines

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CONSTRUCTION OF AIR-STOPPINGS. M. & M., Mar., 1904, p. 392.

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**Measurement of Air-Currents**

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**THE LEE ALARM WATER-GAUGE.** T. F. I. M. E., vol. 3, p. 128. 1 page. I.

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- ON THE COMPARATIVE EFFICIENCY OF FANS AND POSITIVE BLOWERS.** By H. M. Howe. T. A. I. M. E., vol. 10, p. 482.



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## WATER

### Sources and Supplies of Water

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- ARTESIAN WELLS AT SIERRA MOJADA, MEXICO.** T. A. I. M. E., vol. 15, p. 573.

### The Measurement of Water

- MEASUREMENT OF WATER: The Miners' Inch; Flow of Water in Pipes; Horse Power of Water. Machinery for Metalliferous Mines.** By E. H. Davies. pp. 23-28.
- A "MINERS' INCH" ANALOGOUS TO AN AMPERE.** E. & M. J., vol. 61, p. 421. Note.
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PUBLICATION.	VOLUMES INDEXED.
Am. Jour. Min. ....	1 to 7 inclusive.
Coll. Engr. & Met. Miner. ....	8 to 13 inclusive.
E. & M. J. ....	7 to 84 inclusive.
Engineering, London. ....	63 to 79 inclusive.
J. C. M. I. ....	1 to 9 inclusive.
J. C. & M. Soc. S. A. ....	1 to 4 inclusive.
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Min. Mag. ....	10 to 13 inclusive.
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P. C. M. & M. Soc. S. A. ....	5 to 6 inclusive.
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T. N. S. I. M. & M. E. ....	1 to 10 inclusive.

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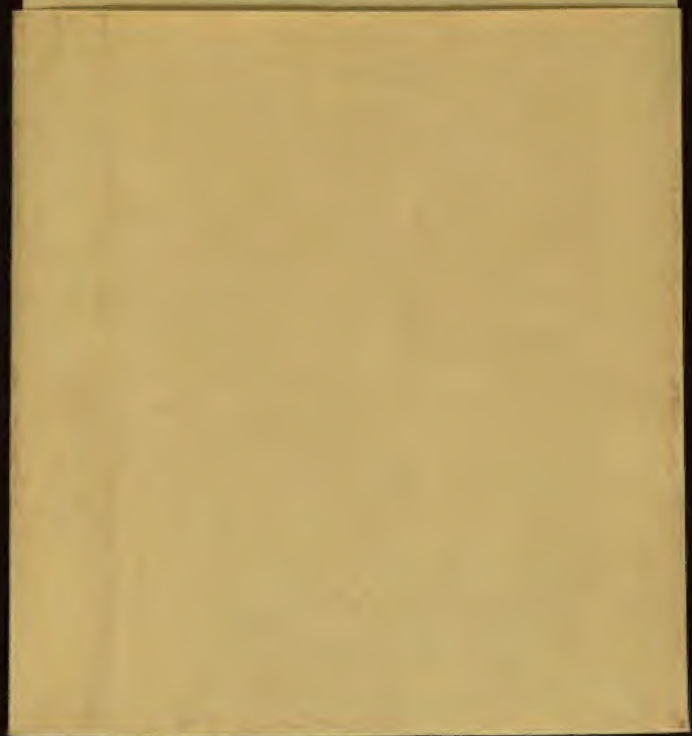


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